



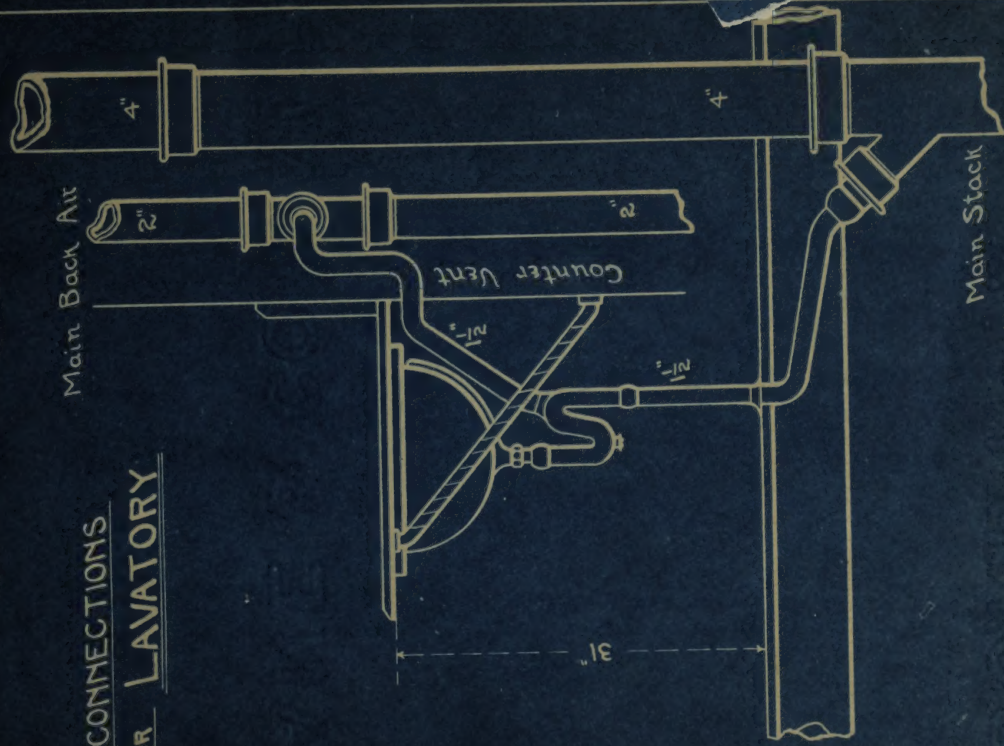
MODERN PLUMBING ILLUSTRATED

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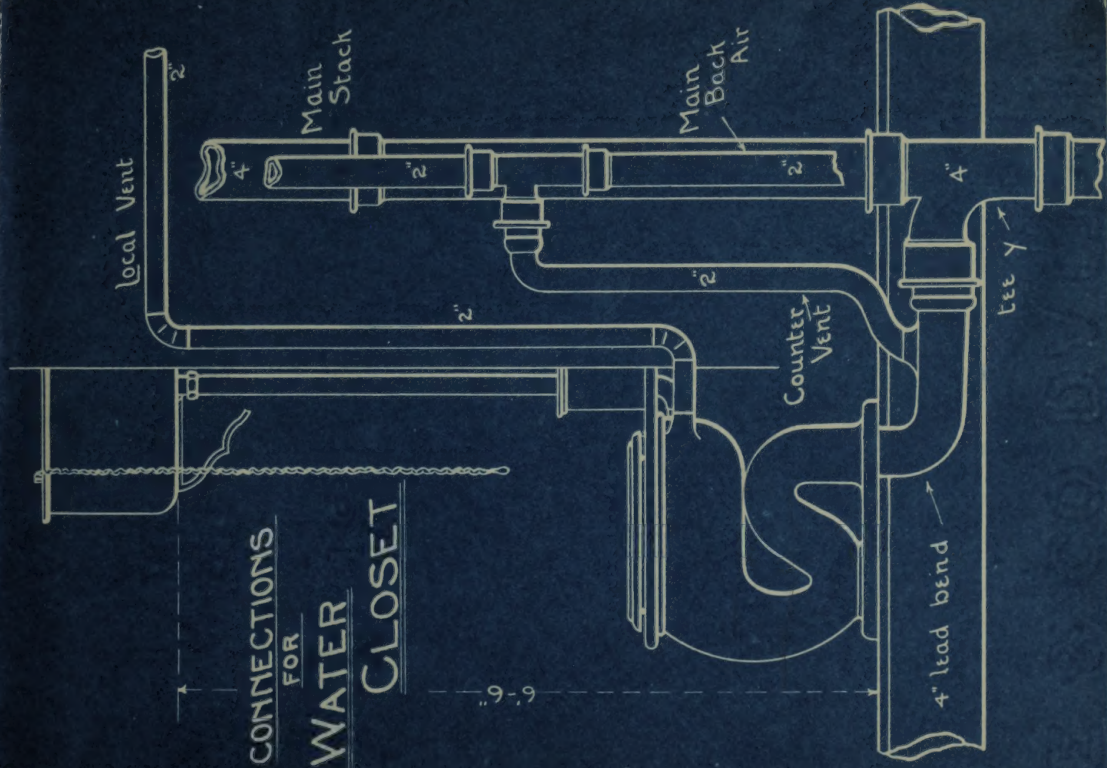




CONNECTIONS
FOR LAVATORY

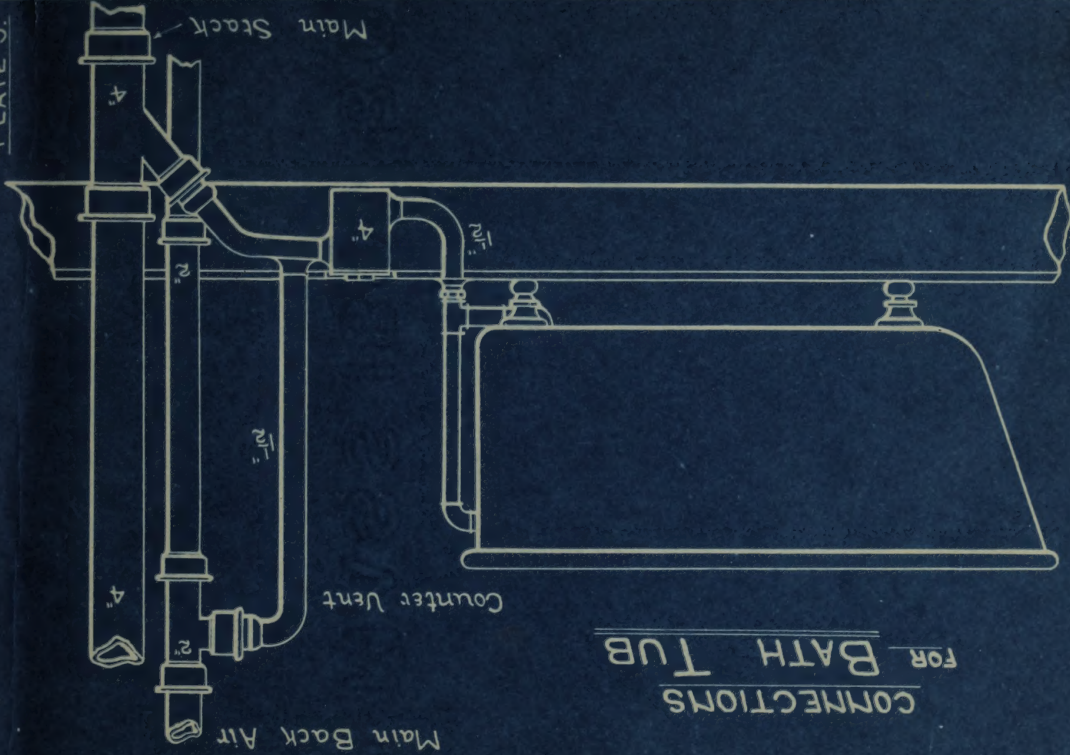


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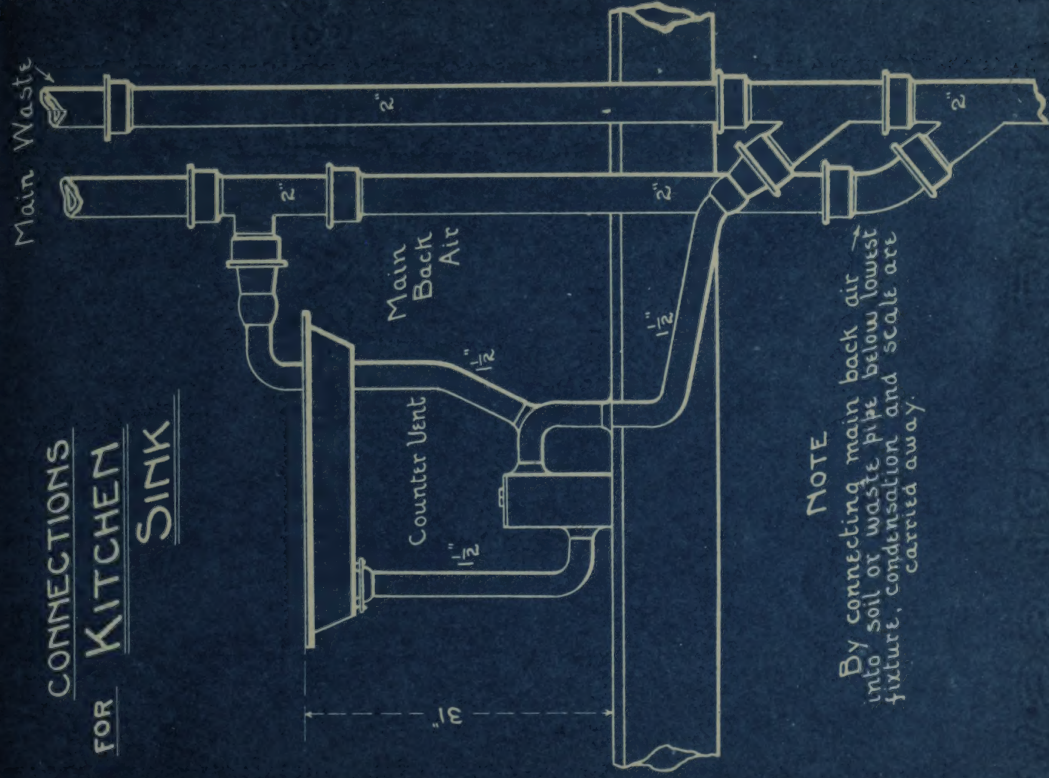
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CONNECTIONS FOR BATH TUB



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CONNECTIONS FOR KITCHEN SINK



NOTE

By connecting main back air into soil or waste pipe below lowest fixture, condensation and scale are carried away.

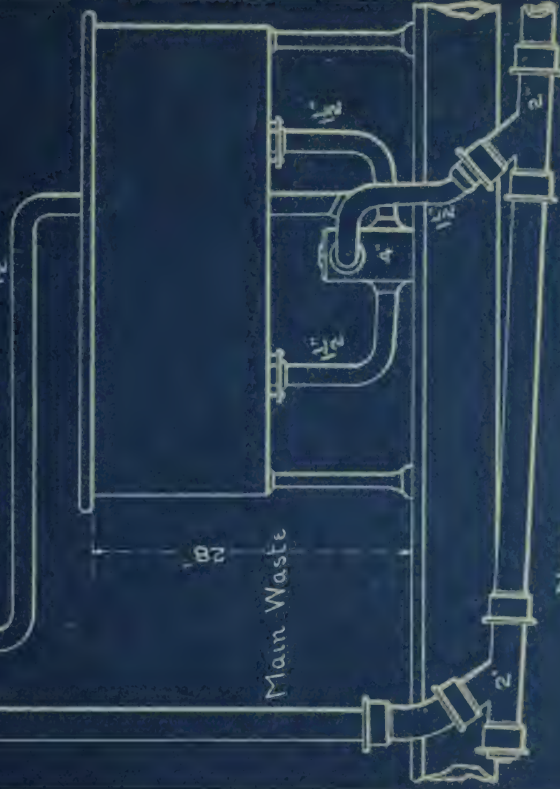
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Main Back Air
connecting into trap
of lowest fixture

CONNECTIONS FOR WASH TRAYS

2" brass hub ferrule

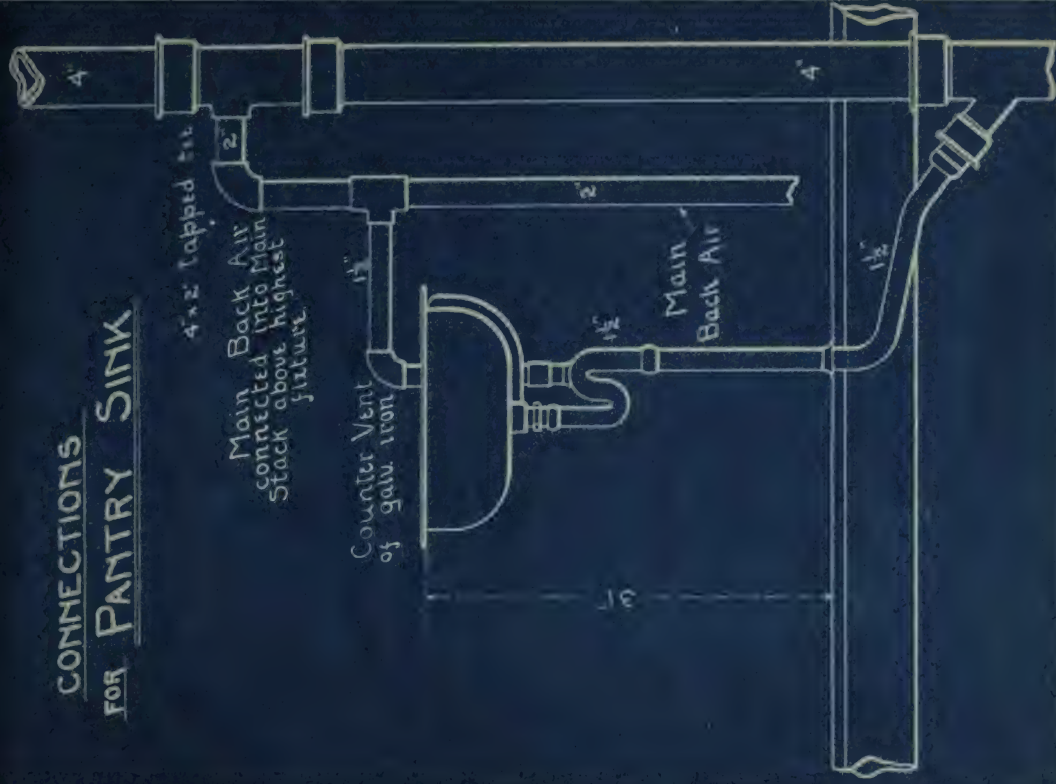
Counter Vent



NOTE

Better practice to enter main back air into main waste, though method shown is sanitary.

CONNECTIONS FOR PANTRY SINK



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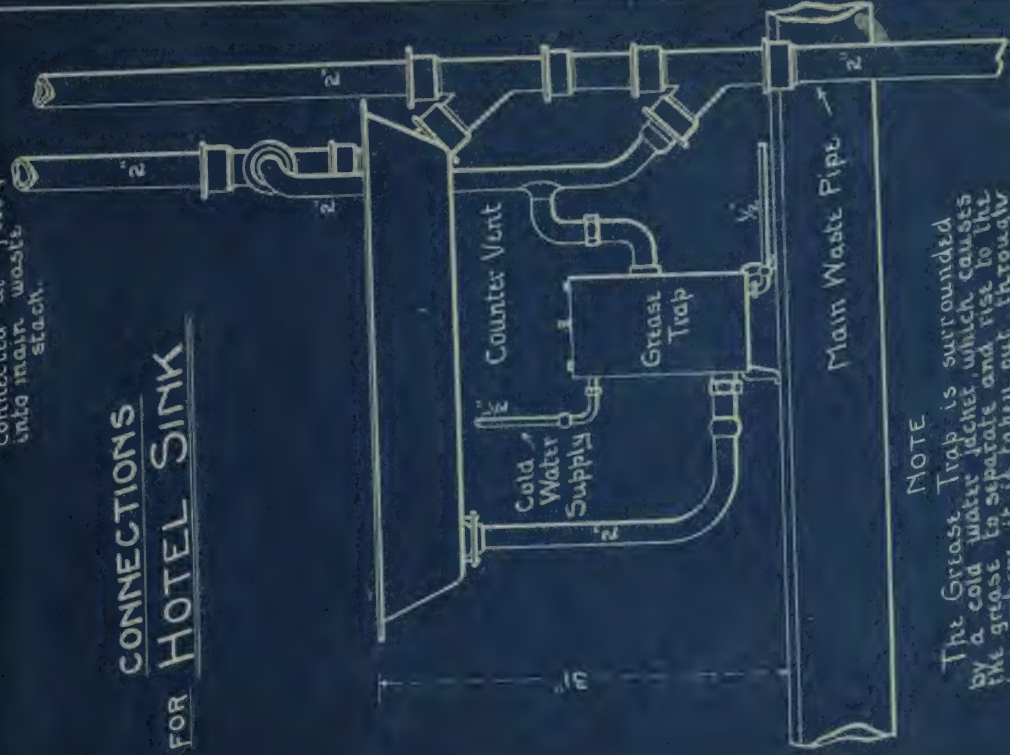


CONNECTIONS
 FOR URINAL

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Main Back Air
connected at foot
into main waste
stack.

CONNECTIONS FOR HOTEL SINK



NOTE

The Grease Trap is surrounded by a cold water jacket, which causes the grease to separate and rise to the top, where it is taken out through a cover.

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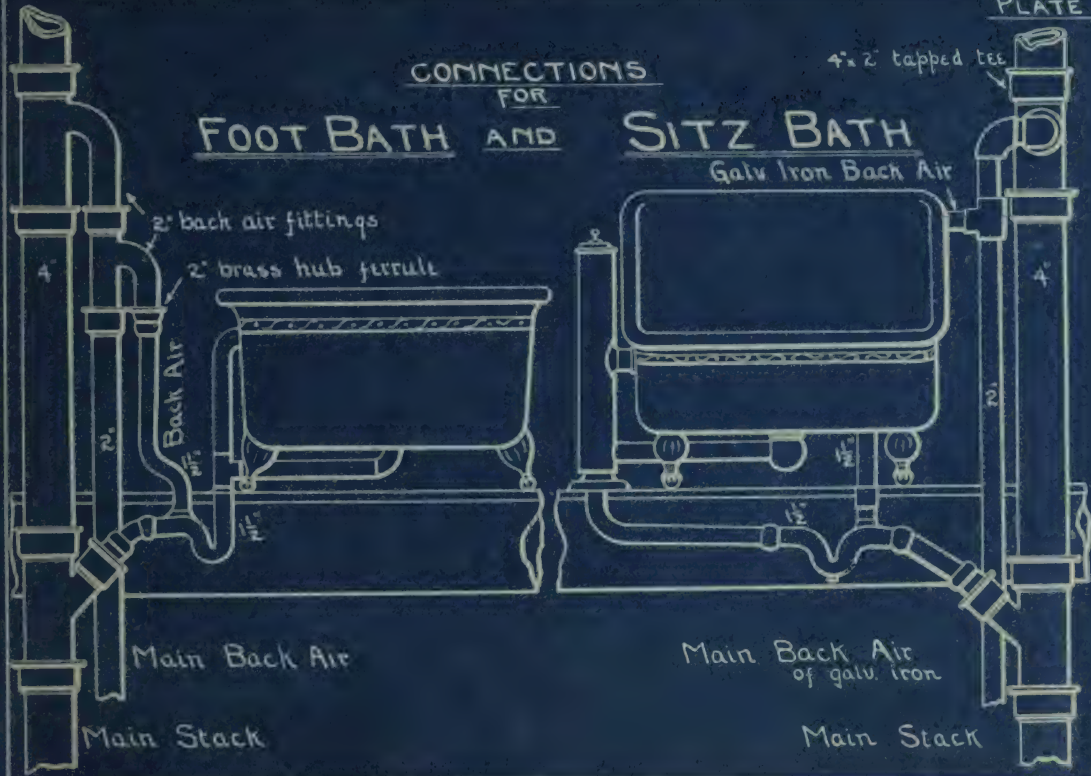
CONNECTIONS
FOR

FOOT BATH

AND

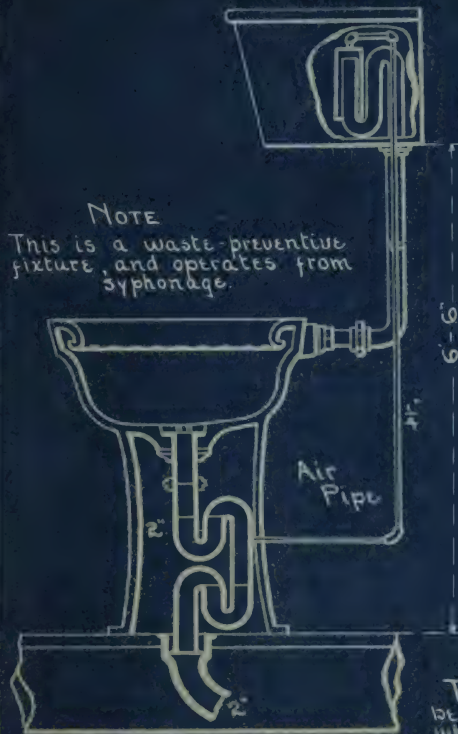
SITZ BATH

Galv Iron Back Air

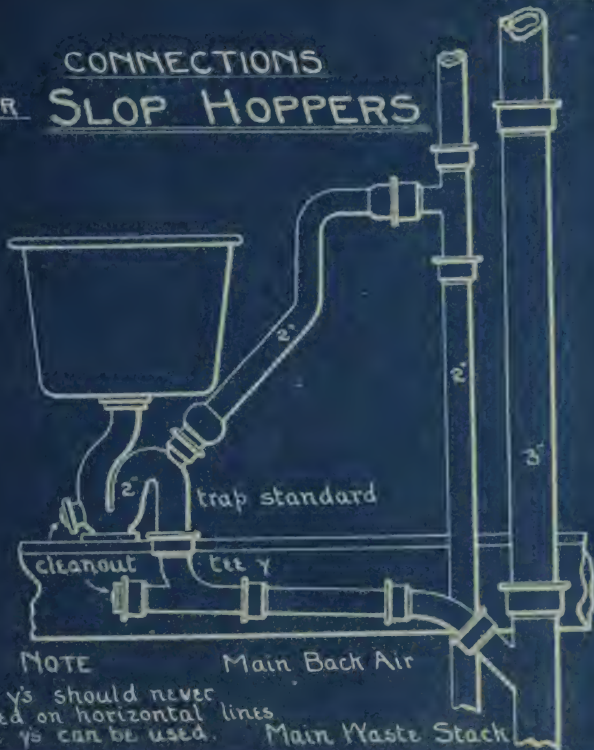


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CONNECTIONS FOR SLOP HOPPERS



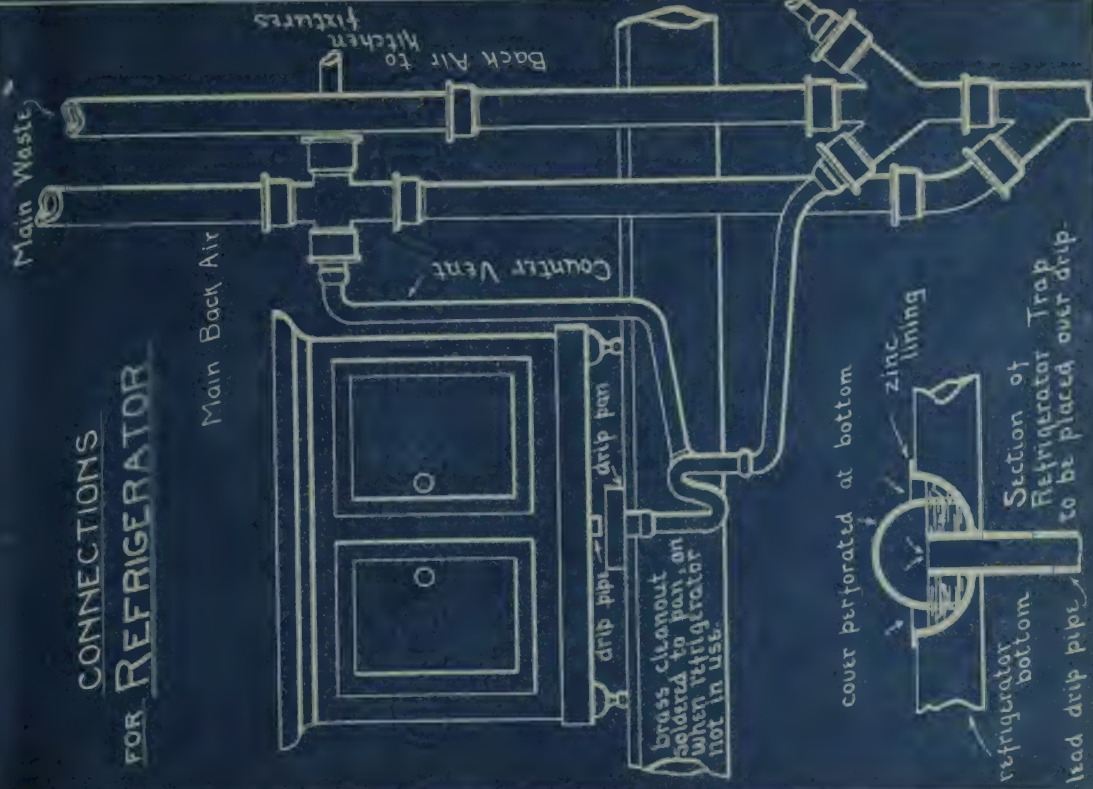
NOTE
This is a waste-preventive
fixture, and operates from
syphonage.



NOTE
Tee ys should never
be used on horizontal lines
when ys can be used.

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UNIVERSITY OF MICHIGAN

CONNECTIONS FOR REFRIGERATOR



LIBRARY
UNIVERSITY OF ILLINOIS



Note
Sketch shows position
of sink and trap door
relative to stall

stall

stall
(end view)

CONNECTIONS

FOR HORSE

STALL

Planks forming trap door
run lengthwise of stall, with
space between them for es-
cape of refuse into sink



Cast iron sink
about 3' x 5' x 11" four
sides of which pitch
toward its centre

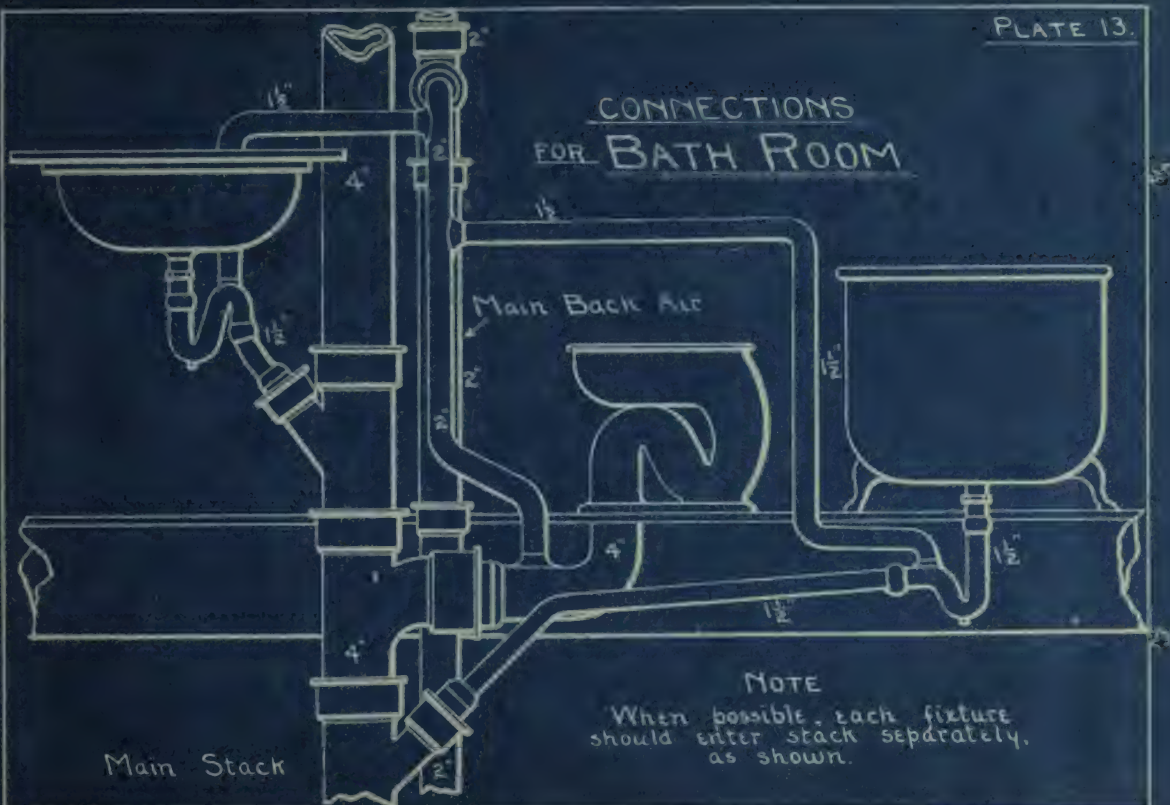
Perforated cover to prevent
escape of solid matter into waste

Vent

cleanout

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CONNECTIONS FOR BATH ROOM



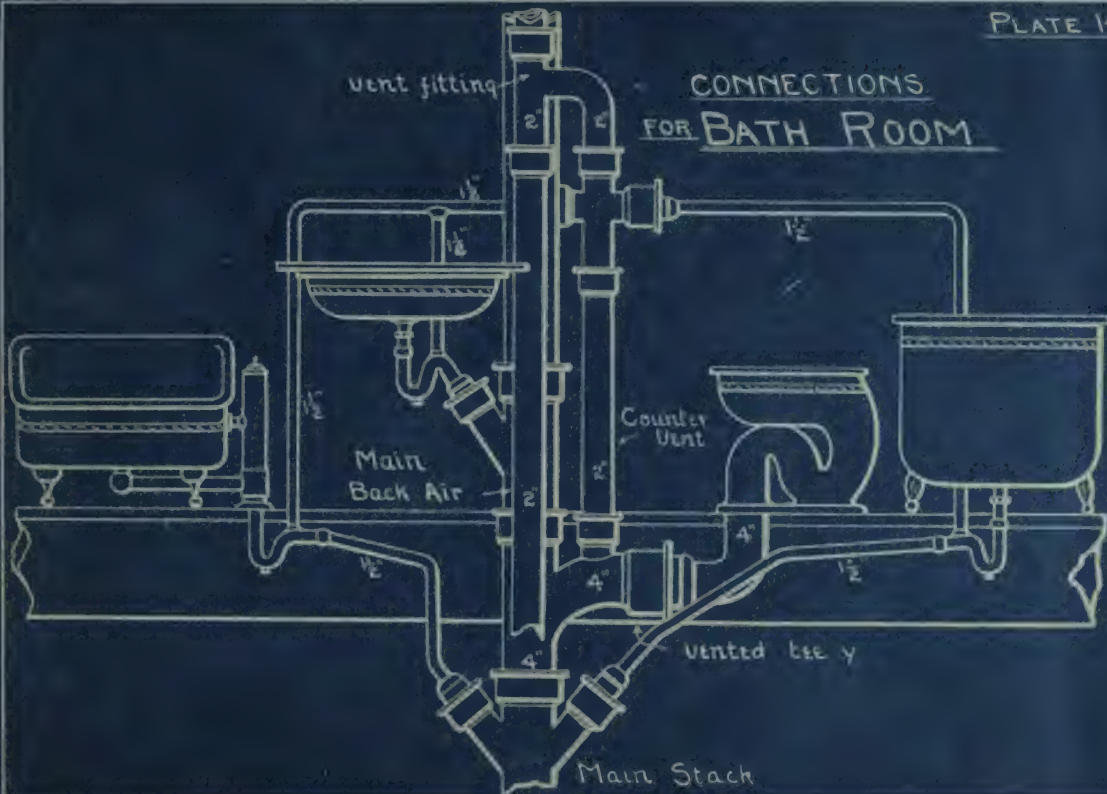
Main Stack

NOTE

When possible, each fixture
should enter stack separately,
as shown.

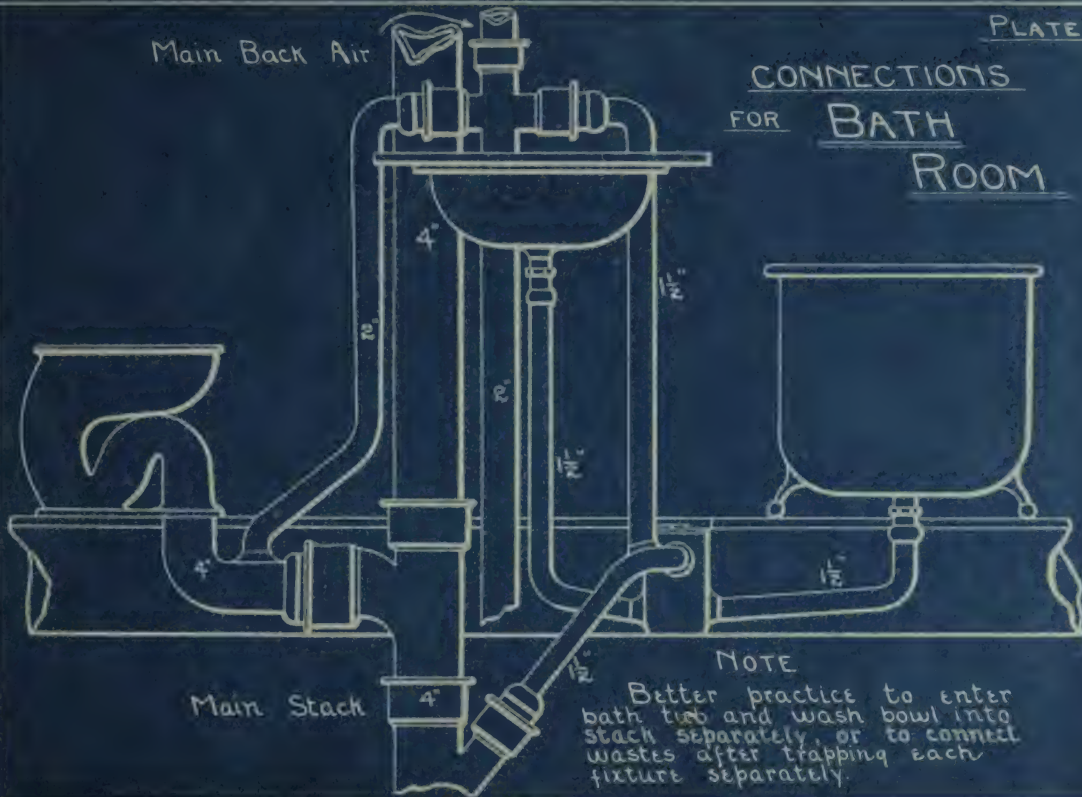
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CONNECTIONS FOR BATH ROOM



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CONNECTIONS FOR BATH ROOM

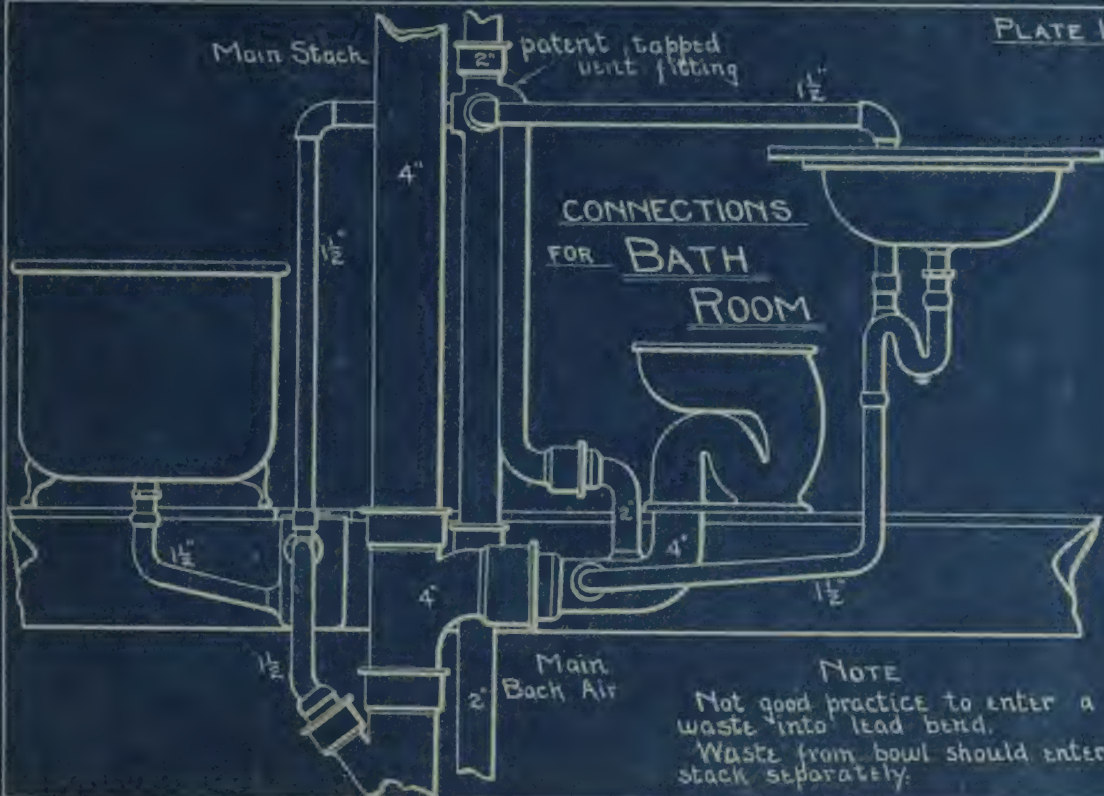


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Main Stack

2" patent tapped vent fitting

CONNECTIONS
FOR BATH
ROOM



Main
Back Air

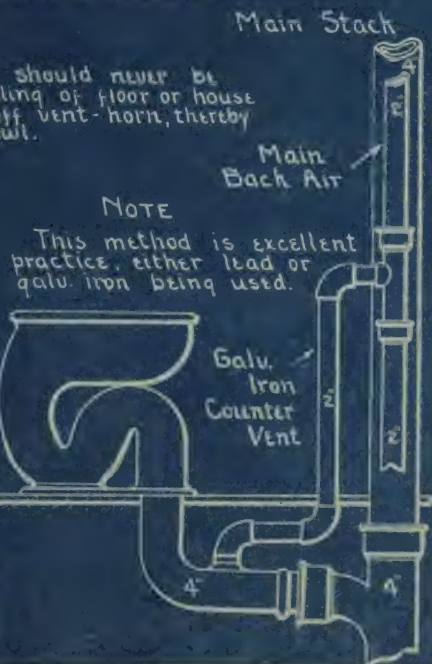
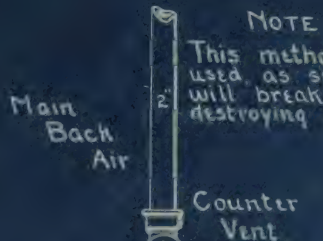
NOTE

Not good practice to enter a waste into lead bend.
Waste from bowl should enter stack separately.

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THREE METHODS OF BACK VENTING WATER CLOSETS

PLATE 17.

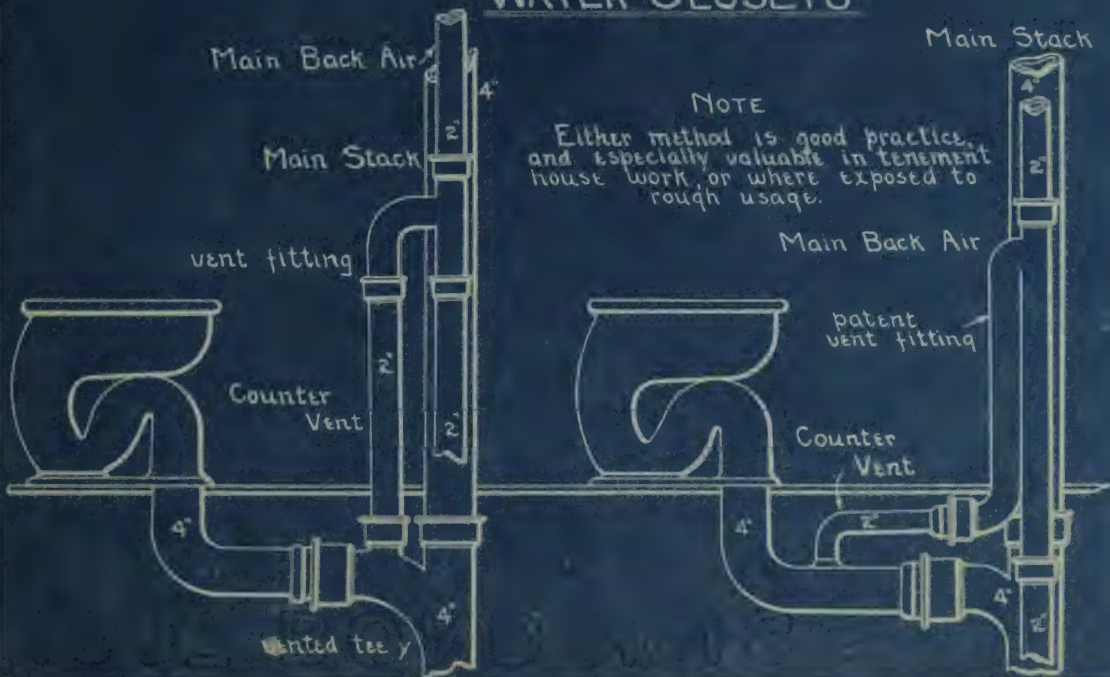


NOTE
This method should never be used, as settling of floor or house will break off vent-horn, thereby destroying bowl.

NOTE
This method is excellent practice, either lead or galv. iron being used.

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TWO METHODS OF BACK VENTING WATER CLOSETS

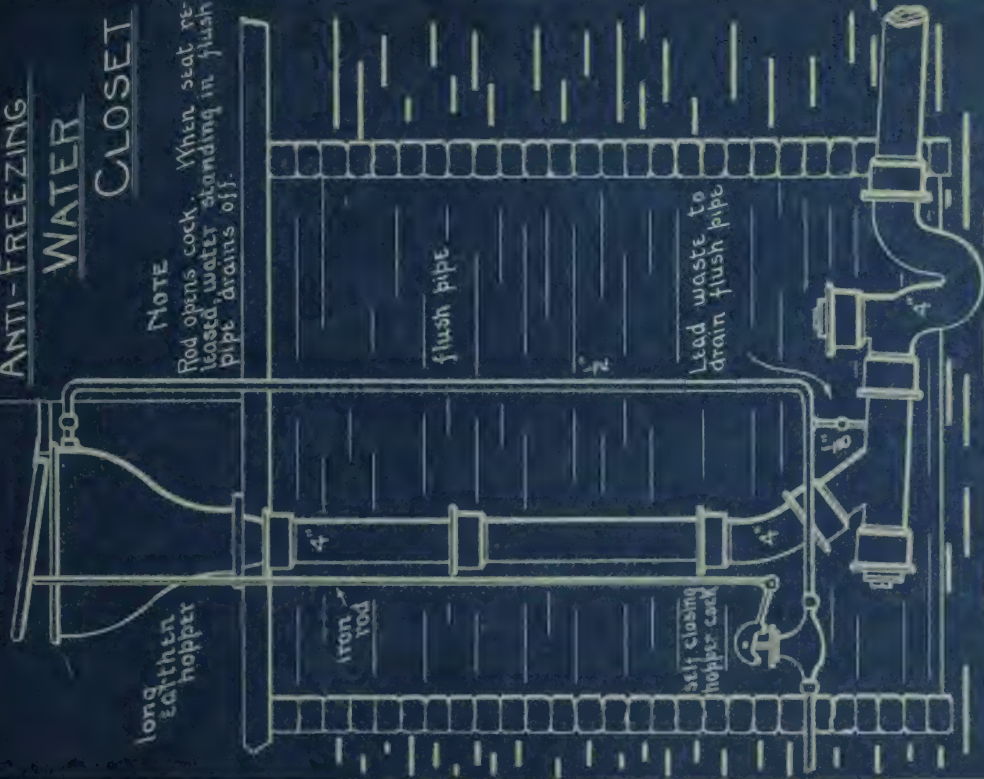


END OF THE WORLD.

ANTI-FREEZING WATER CLOSET

NOTE

Rod opens cock. When seat released, water standing in flush pipe drains off.



flush pipe

Lead waste to
drain flush pipe

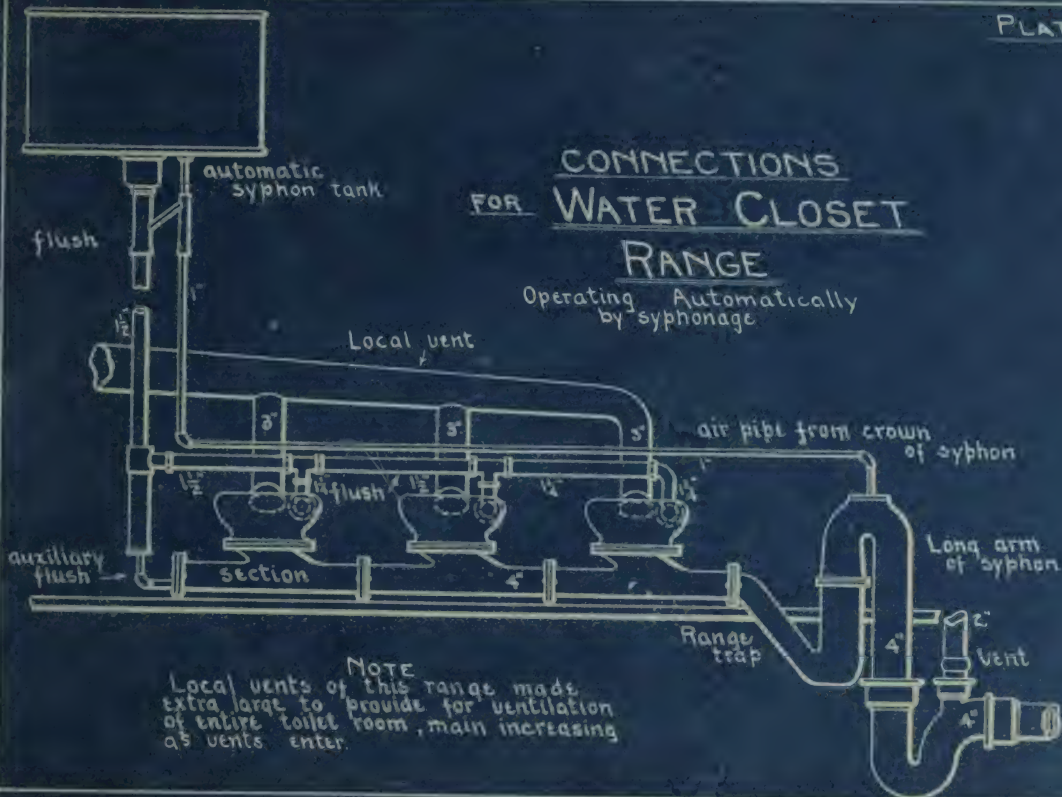
self closing
hopper cock

iron
rod

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CONNECTIONS FOR WATER CLOSET RANGE

Operating Automatically
by syphonage



NOTE
Local vents of this range made
extra large to provide for ventilation
of entire toilet room, main increasing
as vents enter.

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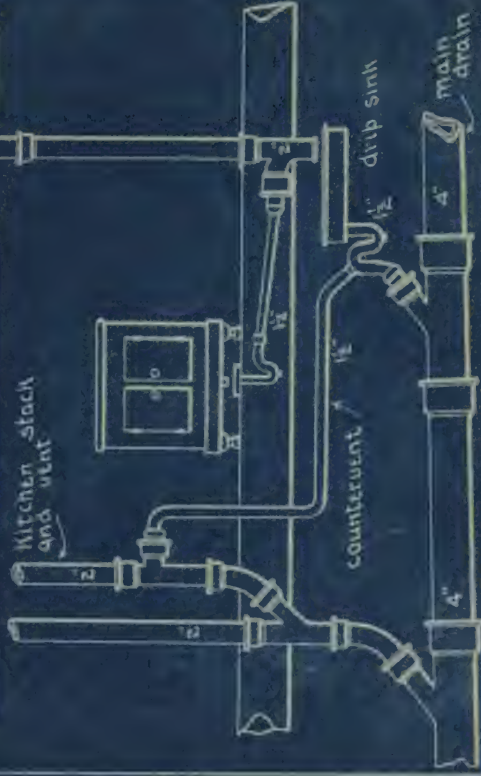
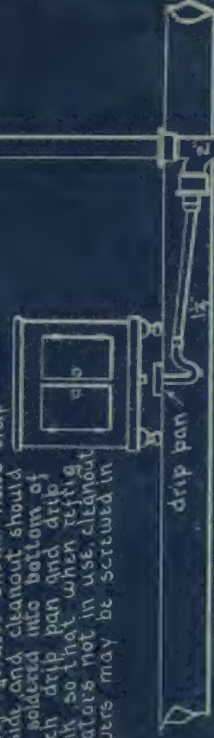
CONNECTIONS FOR LINE

OF REFRIGERATORS

PLATE
21.



NOTE
A refrigerator should have trap inside and cleanout should be soldered into bottom of each drip pan and drip sink so that when refrigerators not in use, cleanout covers may be screwed in



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TWO METHODS OF LOCAL

VENTING

PLATE 22.

made of copper
and cemented into
chimney above
highest opening
into it.

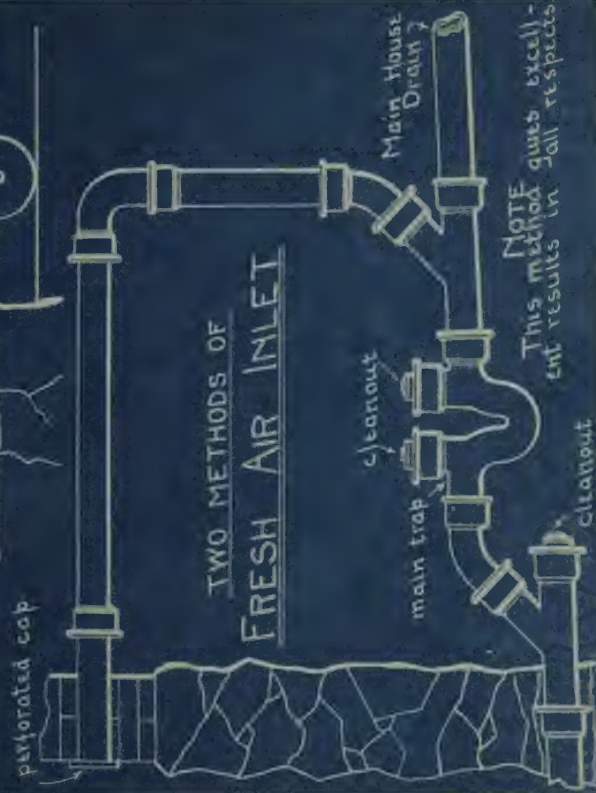
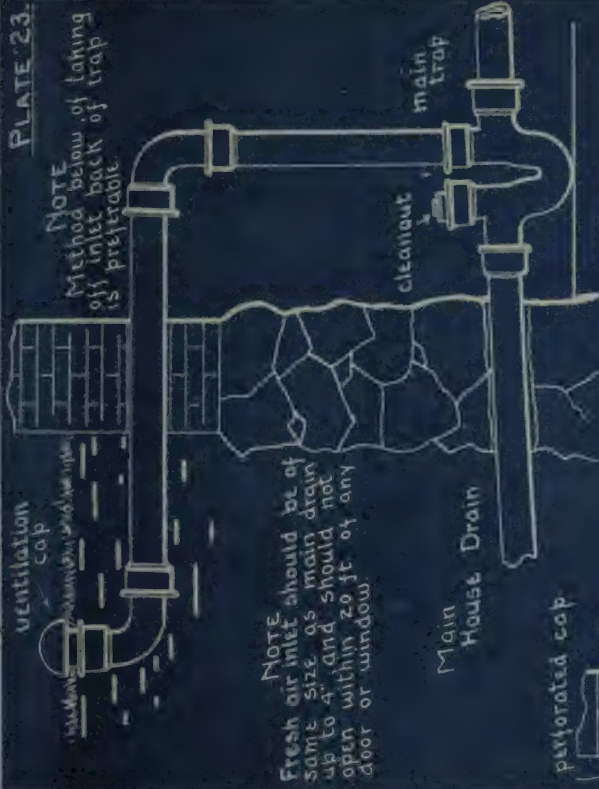
of copper

NOTE
Local vent pipe
usually made
of galv sheet
iron.

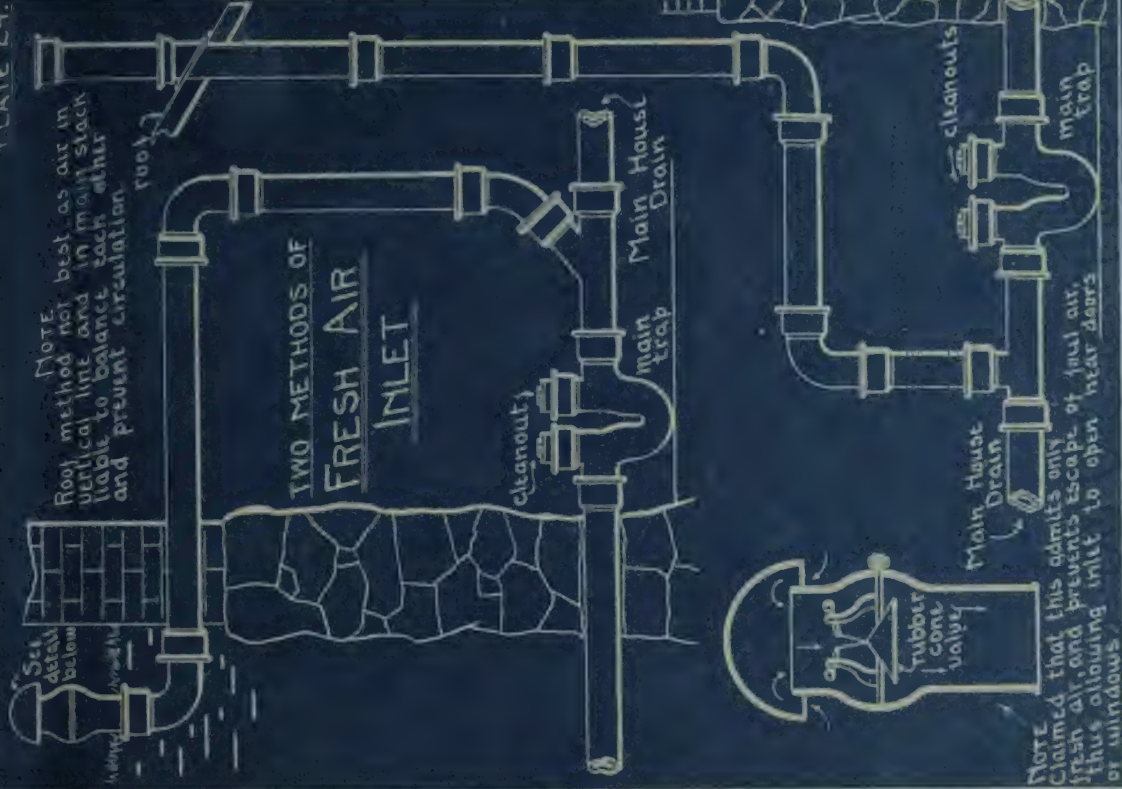
NOTE
Other method prefer-
able as in this con-
dition may be car-
ried from one
apartment into
another, also nar-
rows especially
which closes off an
opposite side of
same
partition

spud over which
vent pipe is
slipped

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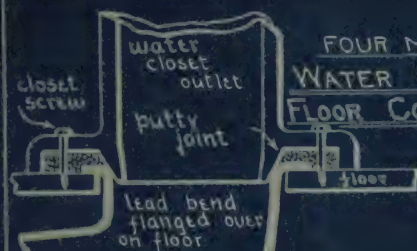


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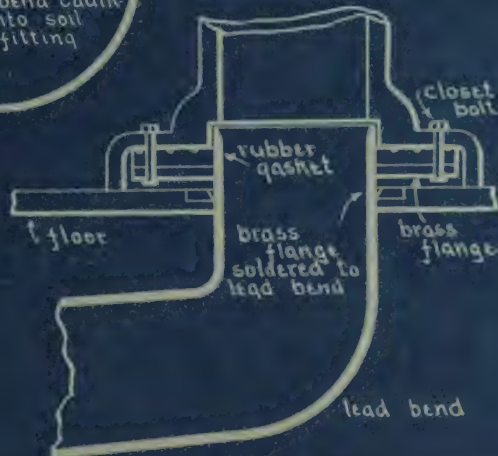
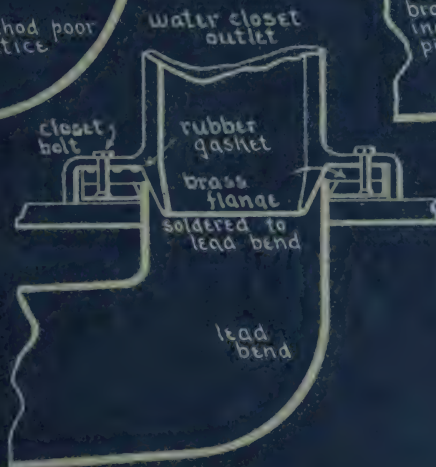
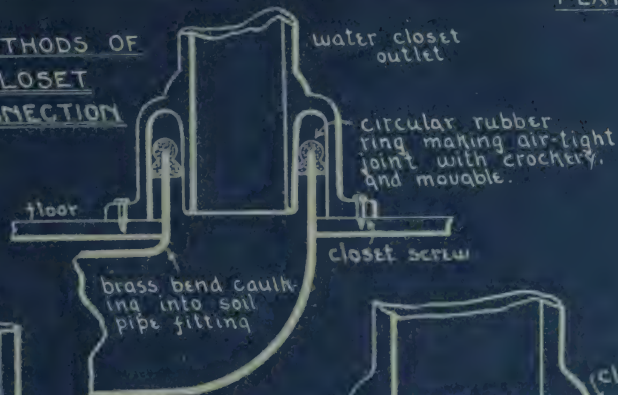


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FOUR METHODS OF WATER CLOSET FLOOR CONNECTION



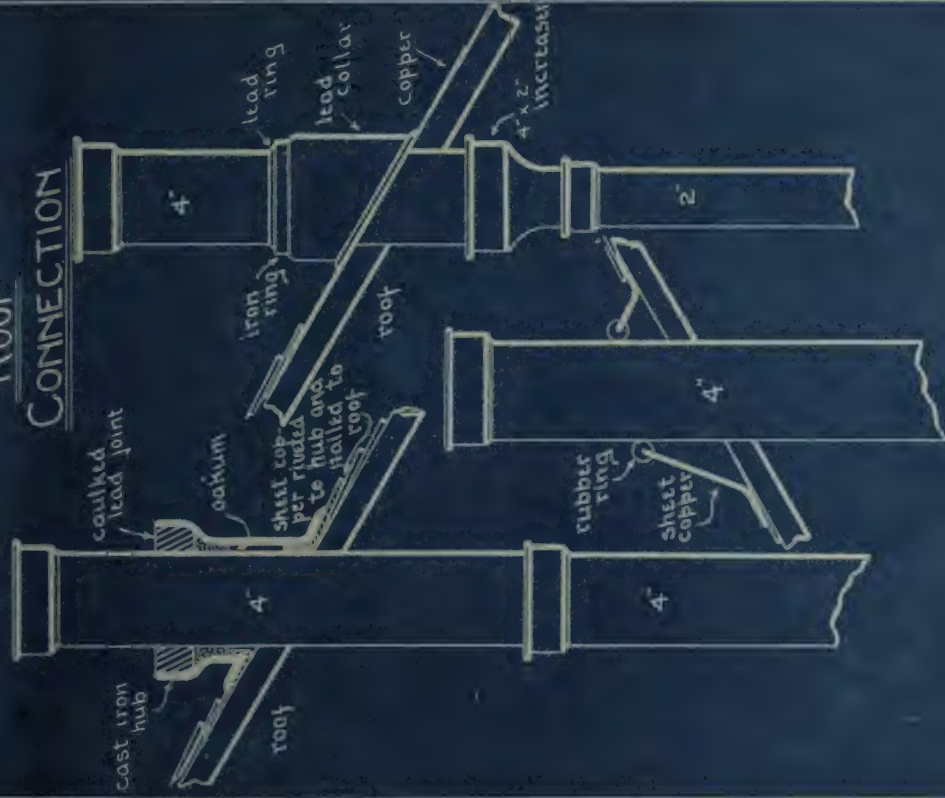
NOTE
This method poor
practice



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ROOF

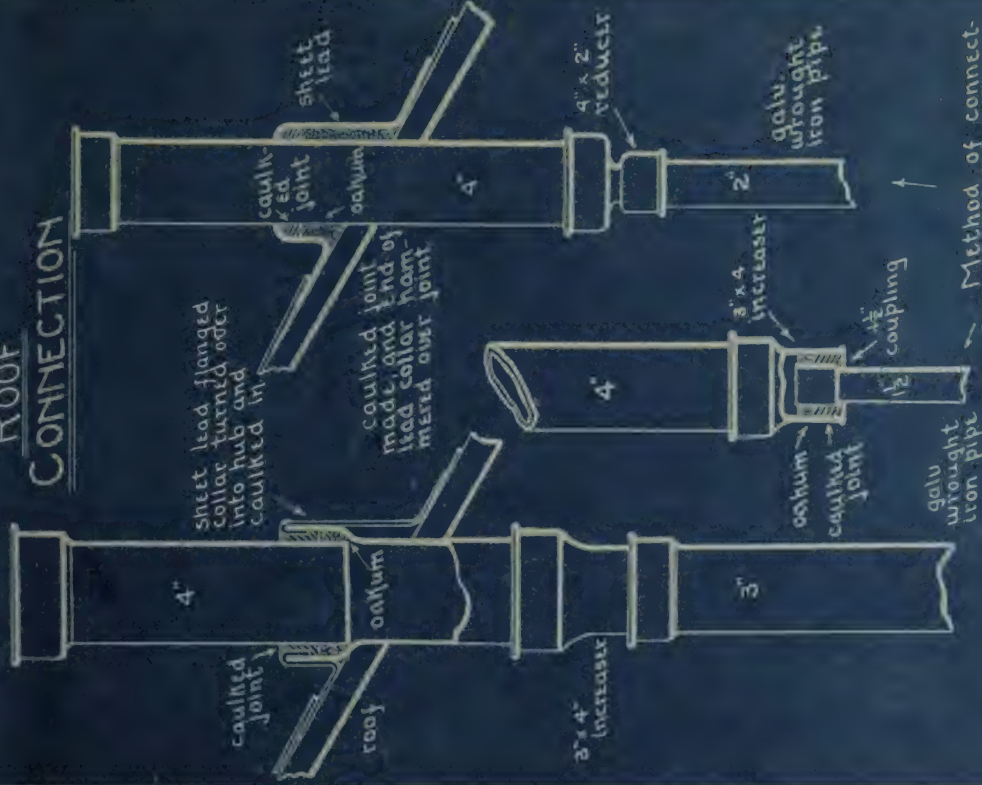
CONNECTION



NOTE
A pipe of less than 4" should be increased to at least 4" before passing through roof, to prevent closing up of a smaller opening by heat of frost.

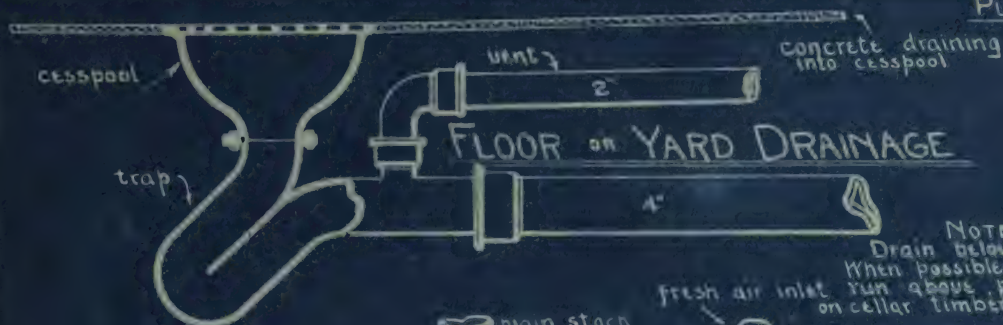
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ROOF CONNECTION



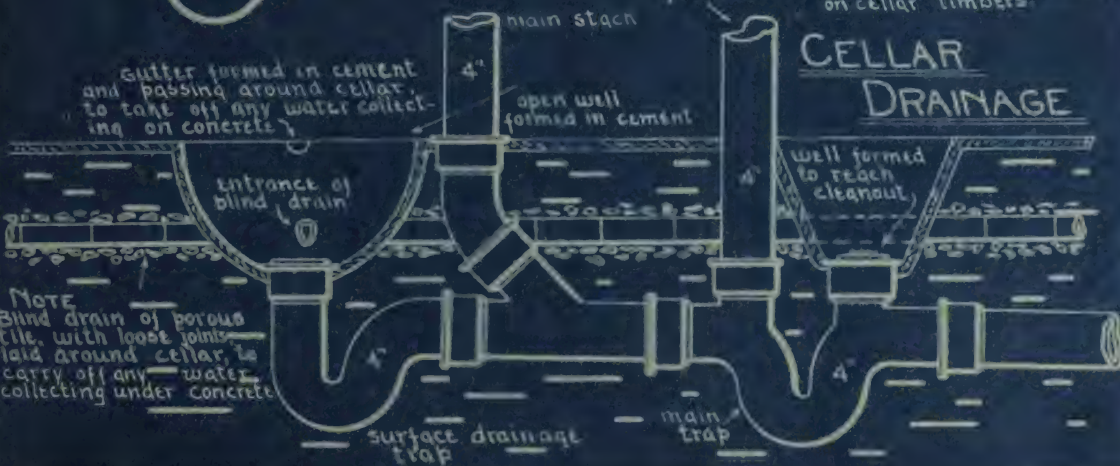
Method of connecting vertical line of wrought iron pipe with vertical line of cast iron pipe

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NOTE

Drain below surface. When possible, should fresh air inlet run above, preferably on cellar timbers.



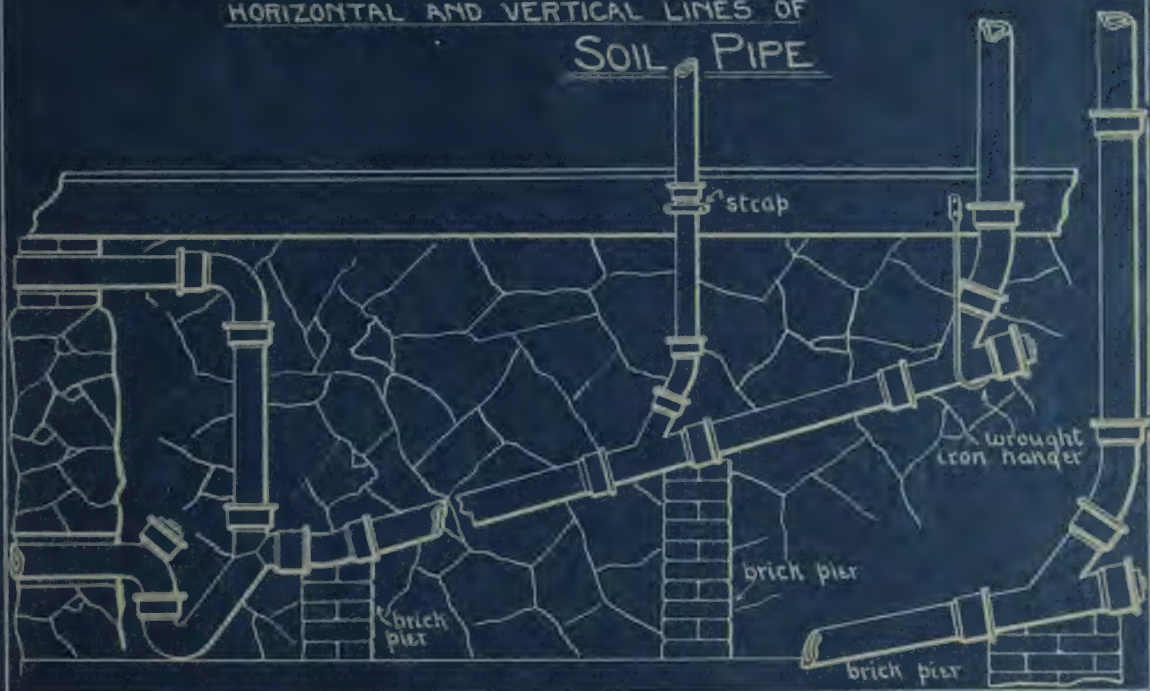
NOTE
Blind drain of porous tile, with loose joints, laid around cellar, to carry off any water collecting under concrete.

R

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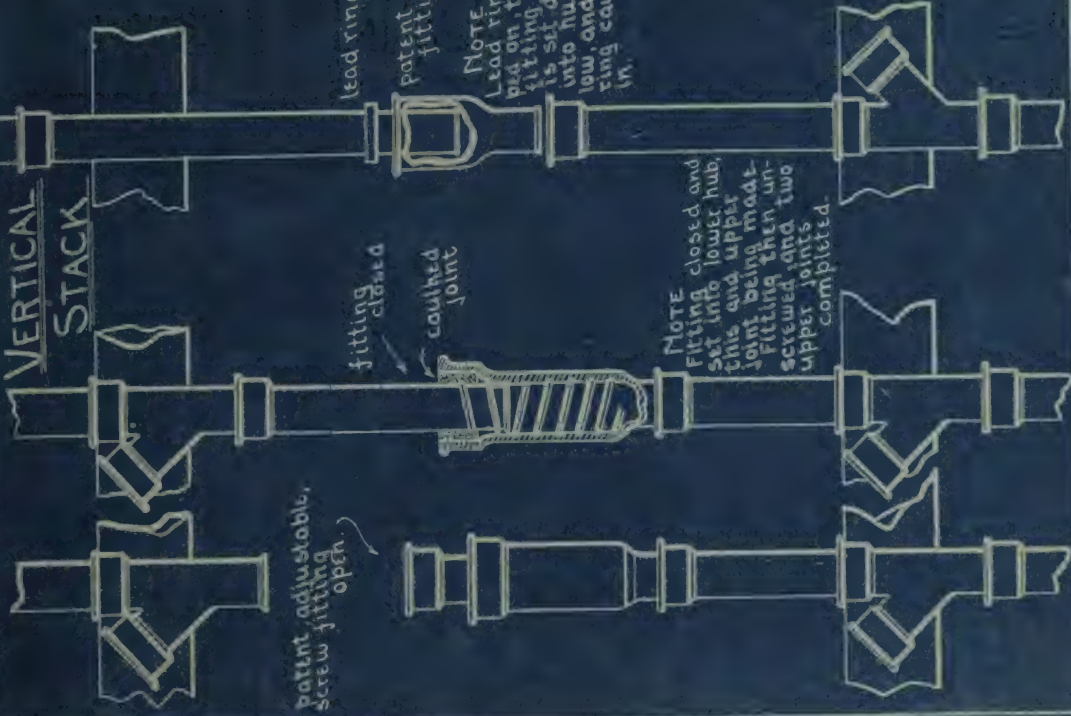
V

METHODS OF SUPPORTING HORIZONTAL AND VERTICAL LINES OF SOIL PIPE

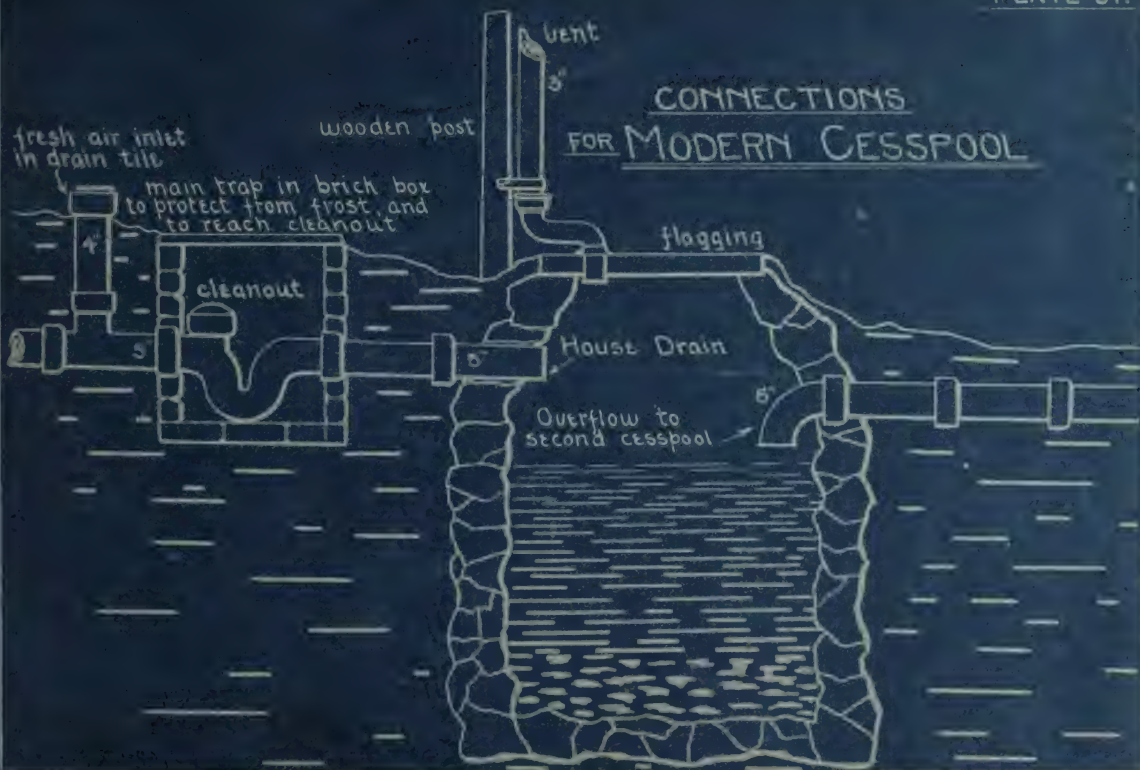


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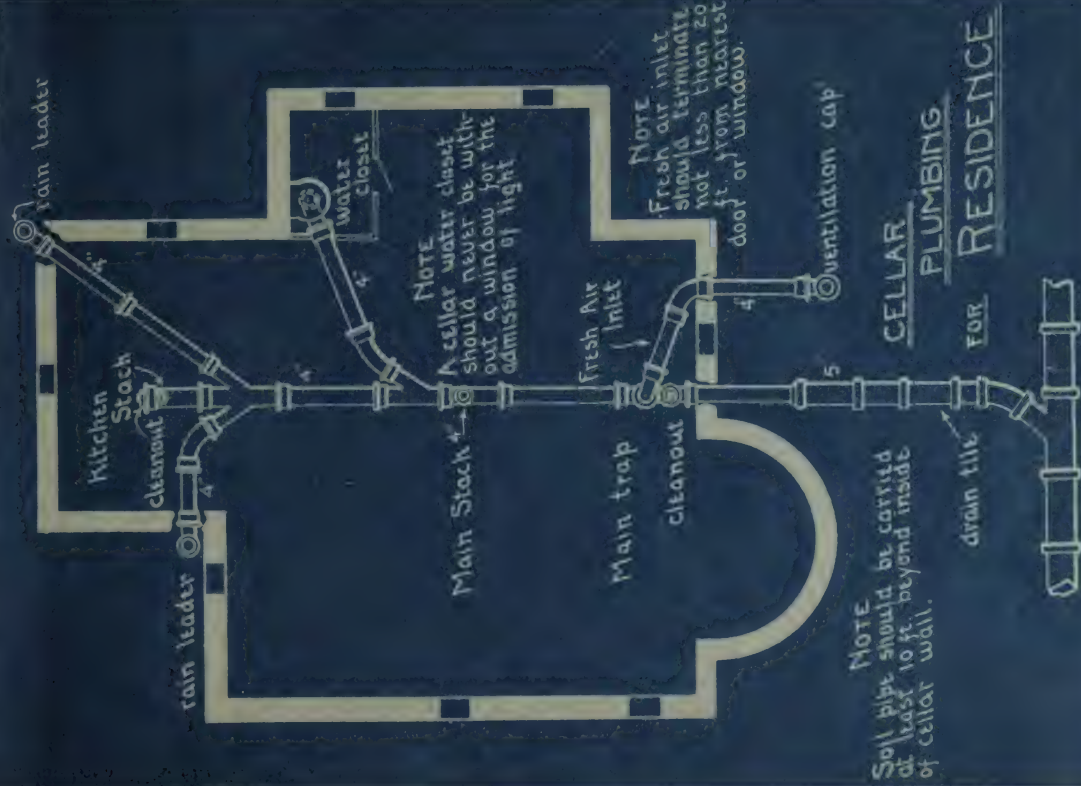
TWO METHODS OF ENTERING VERTICAL STACK



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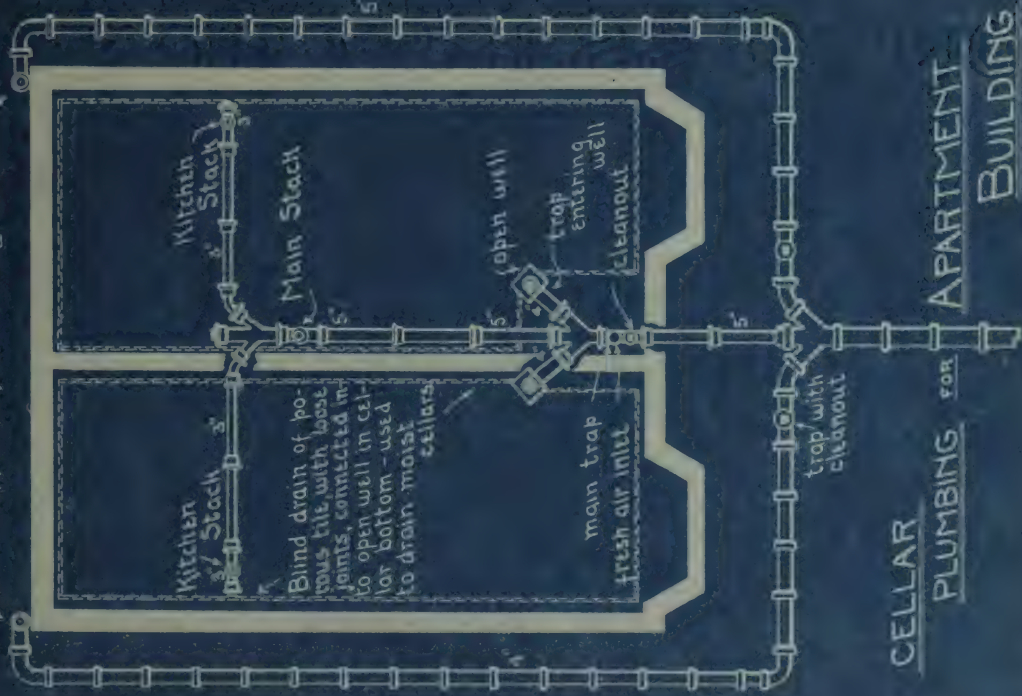


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Roof water taken into drain tile,
and trapped before entering sewer.



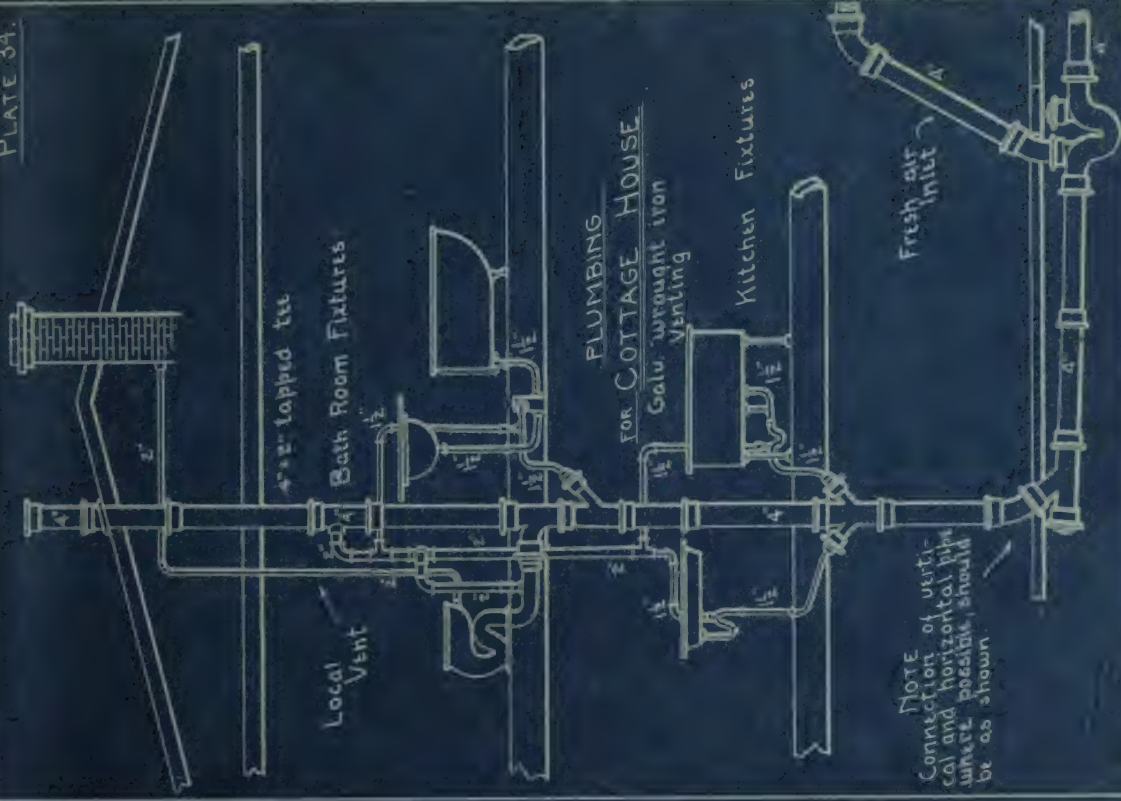
CELLAR

PLUMBING FOR

APARTMENT

BUILDING

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NOTE
Connection of verti-
cal and horizontal pipe
where possible, should
be as shown.

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OF THE

PLUMBING FOR COUNTRY HOUSE

IN WHICH
THERE IS TO BE NO VENTING,
and where there is no public
sewer.

Bath Room
Fixtures

Kitchen
Fixtures

NOTE

In the many country houses where no
venting is put in drum traps should be
used, as they are less liable to syphonage.
Lavatory trap less liable to syphon, if
entered above water closet inlet.

Fresh air
inlet

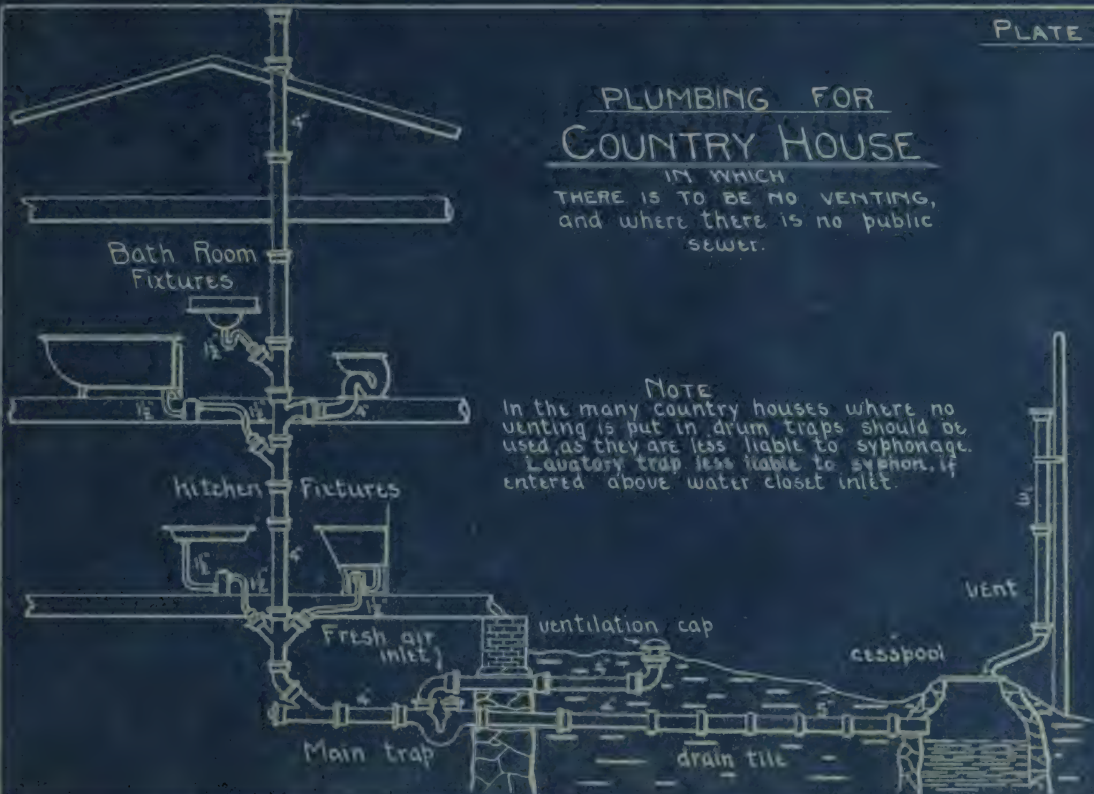
ventilation cap

VENT

cesspool

Main trap

drain tile



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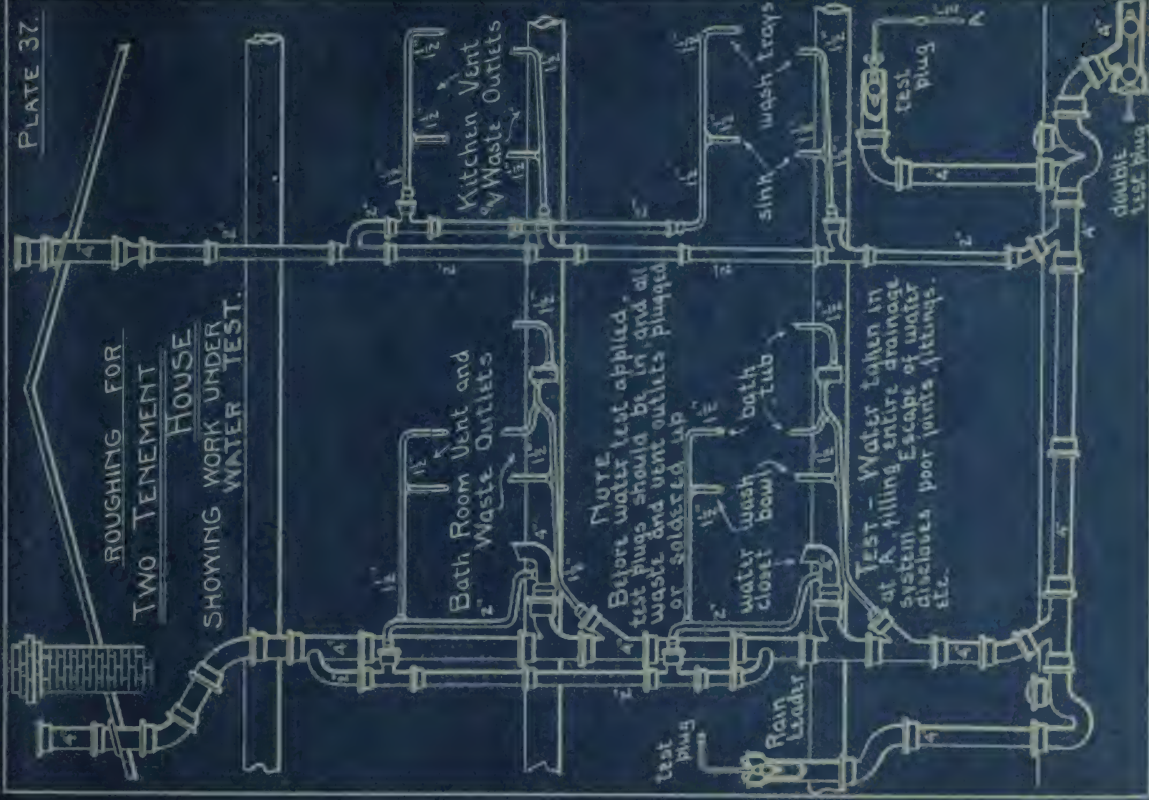
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ROUGHING FOR

TWO TENEMENT

HOUSE

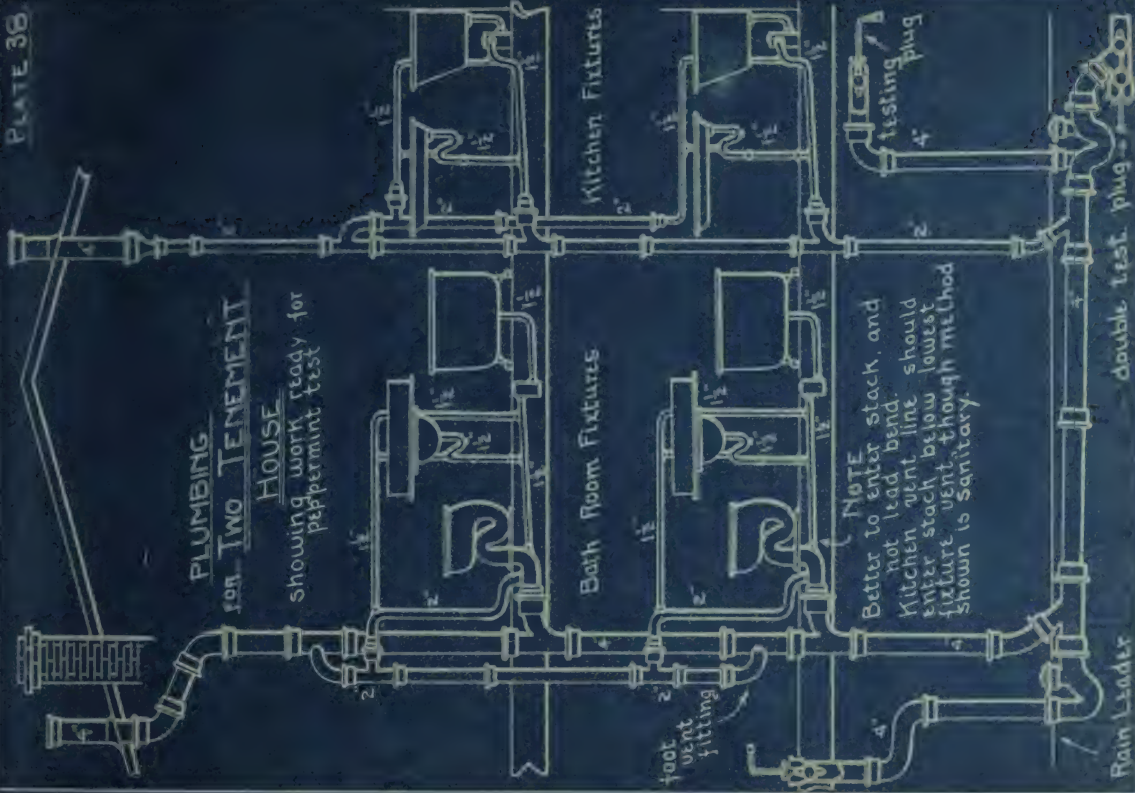
SHOWING WORK UNDER
WATER TEST.



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PLUMBING for TWO TENEMENT HOUSE

showing work ready for
peppermint test



NOTE
Better to enter stack and
not lead bend.
Kitchen vent line should
enter stack below lowest
fixture vent though method
shown is sanitary.

Rain Leader

double test plug

testing
plug

Bath Room Fixtures

Kitchen Fixtures

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PLUMBING FOR TWO TENEMENT HOUSE

Venting of galv. wrought iron.

4 x 2" tapped tee

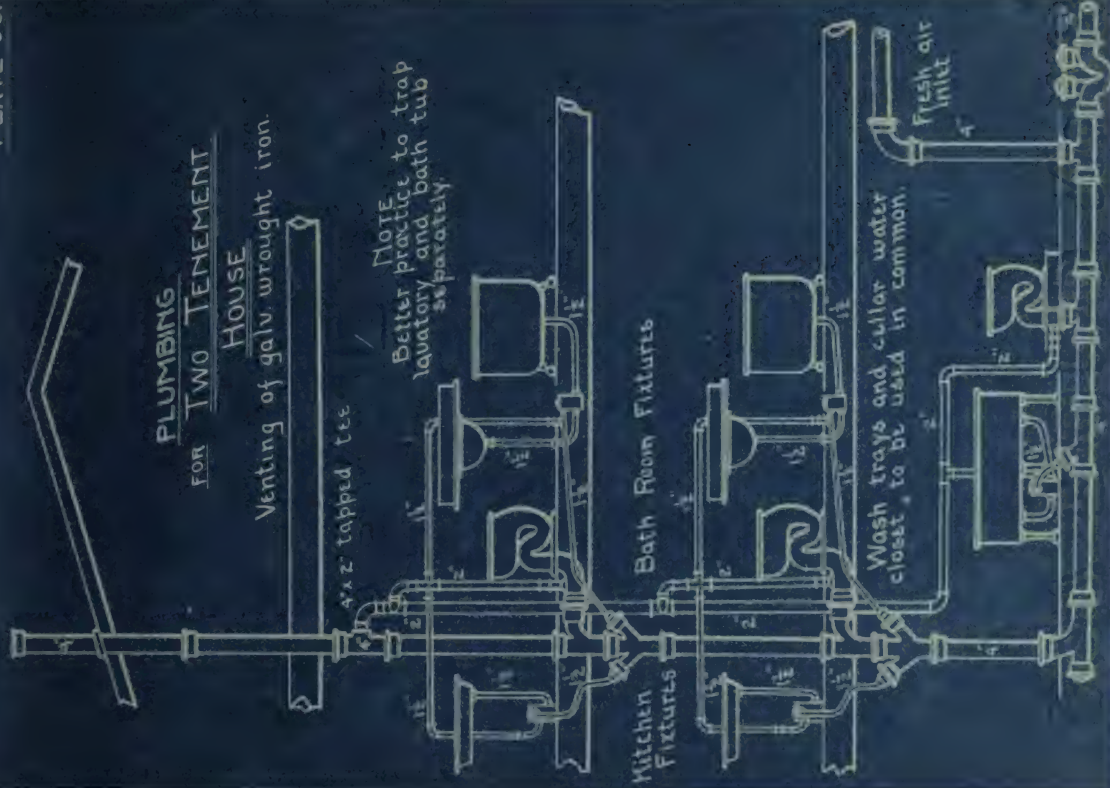
NOTE
Better practice to trap
lavatory and bath tub
separately.

Kitchen
Fixtures

Bath Room Fixtures

Wash trays and cellar water
closet to be used in common.

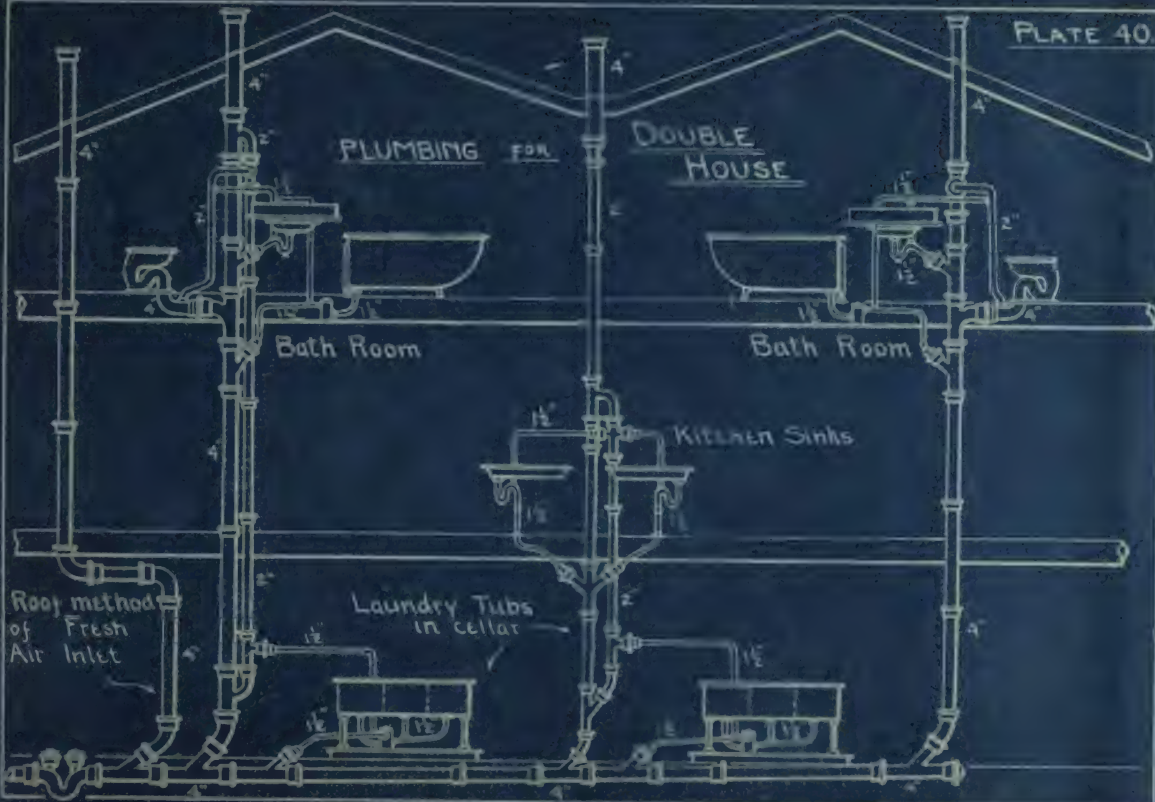
Fresh air
inlet



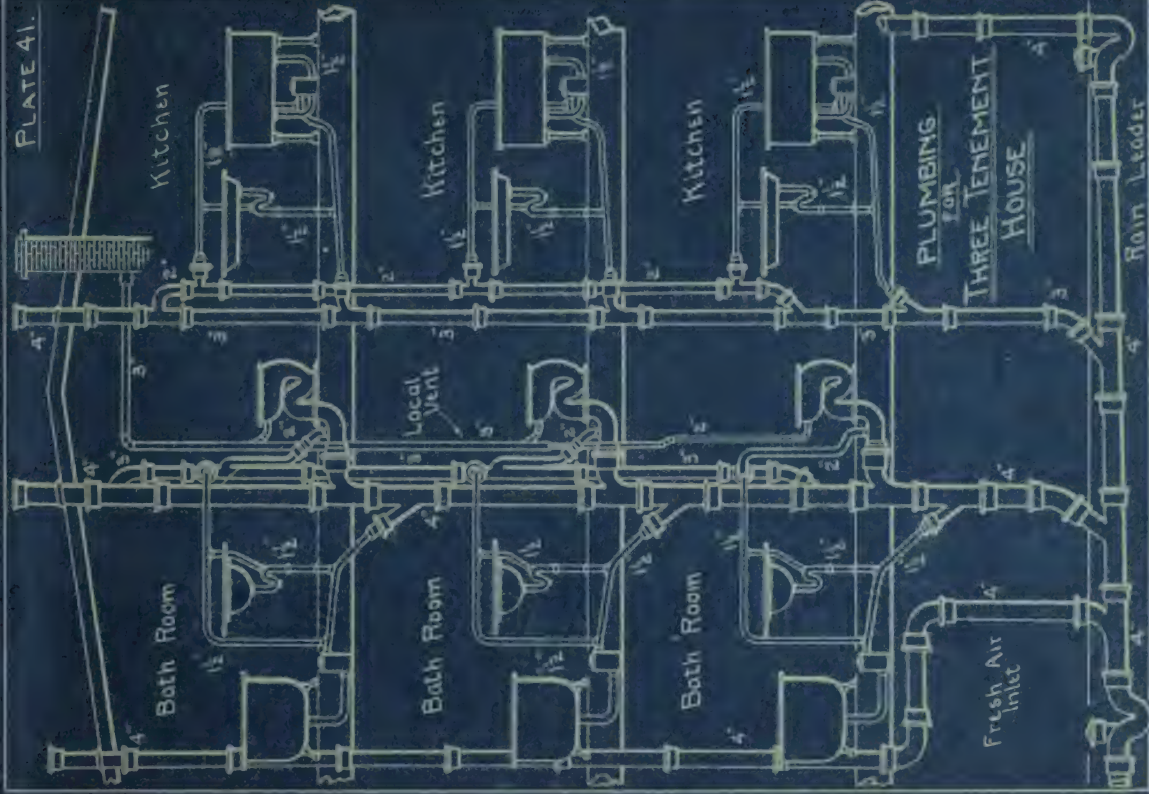
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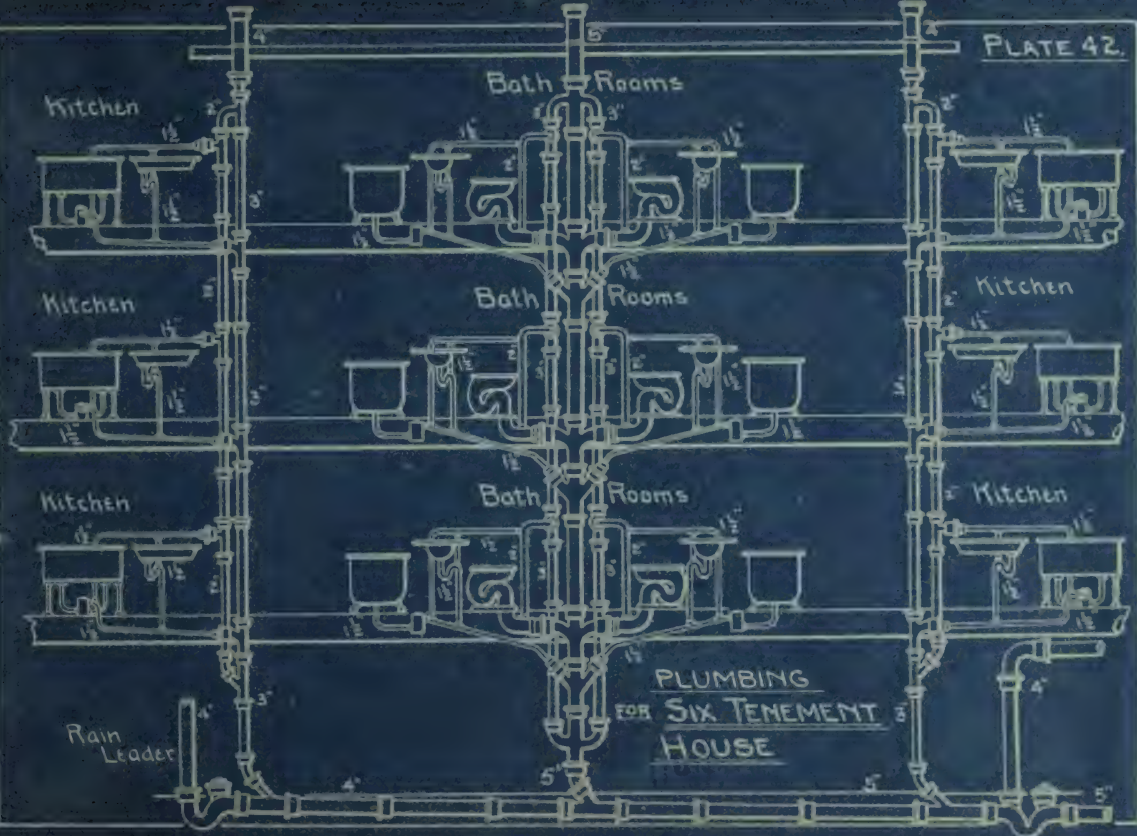
DOUBLE
HOUSE



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NOTE - Roof pipe should extend 2 ft or more above roof

Office Toilet Rooms

vent
fitting

inverted

Printed by Y

PLUMBING

FOR

5/5/11

Block

showing various methods
and appliances for
venting

Office
Toilet
Room

hub

patent
vent fil
ing, with
sped for
second
vent

NOTE - This vent should be taken off upper part of horizontal leg of lead bind.

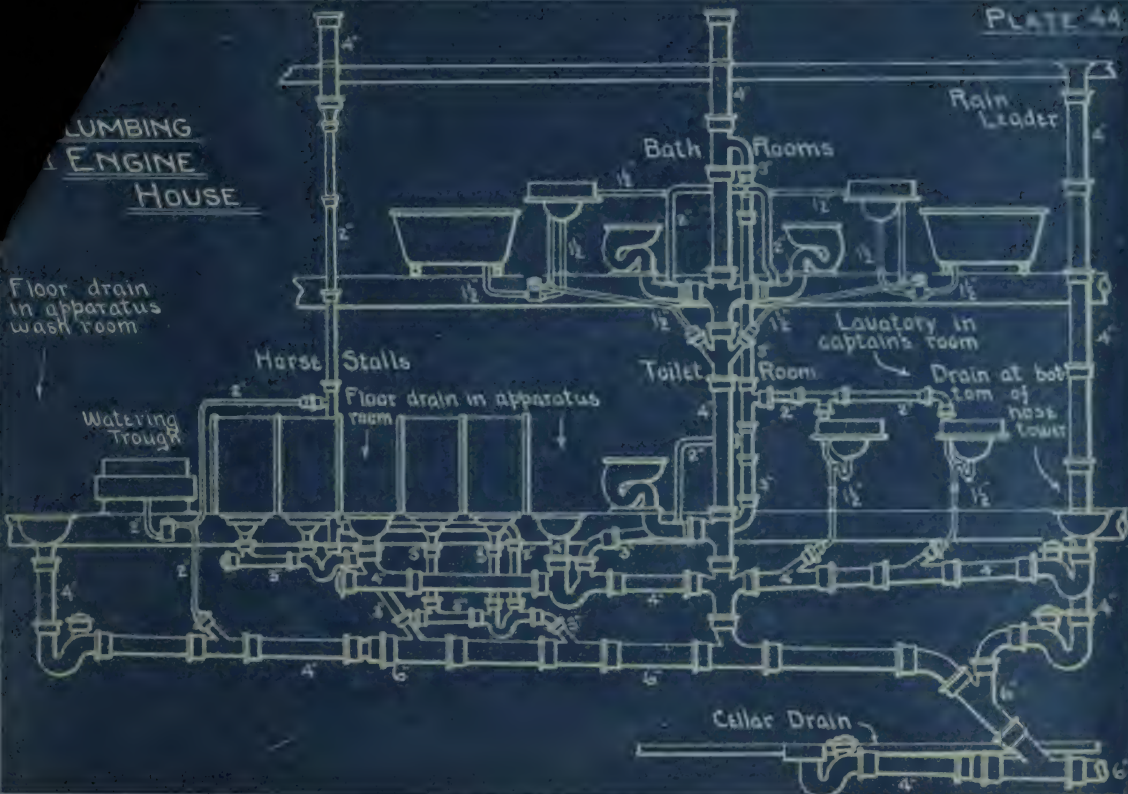
Store Toilet Rooms

foot print
building
with

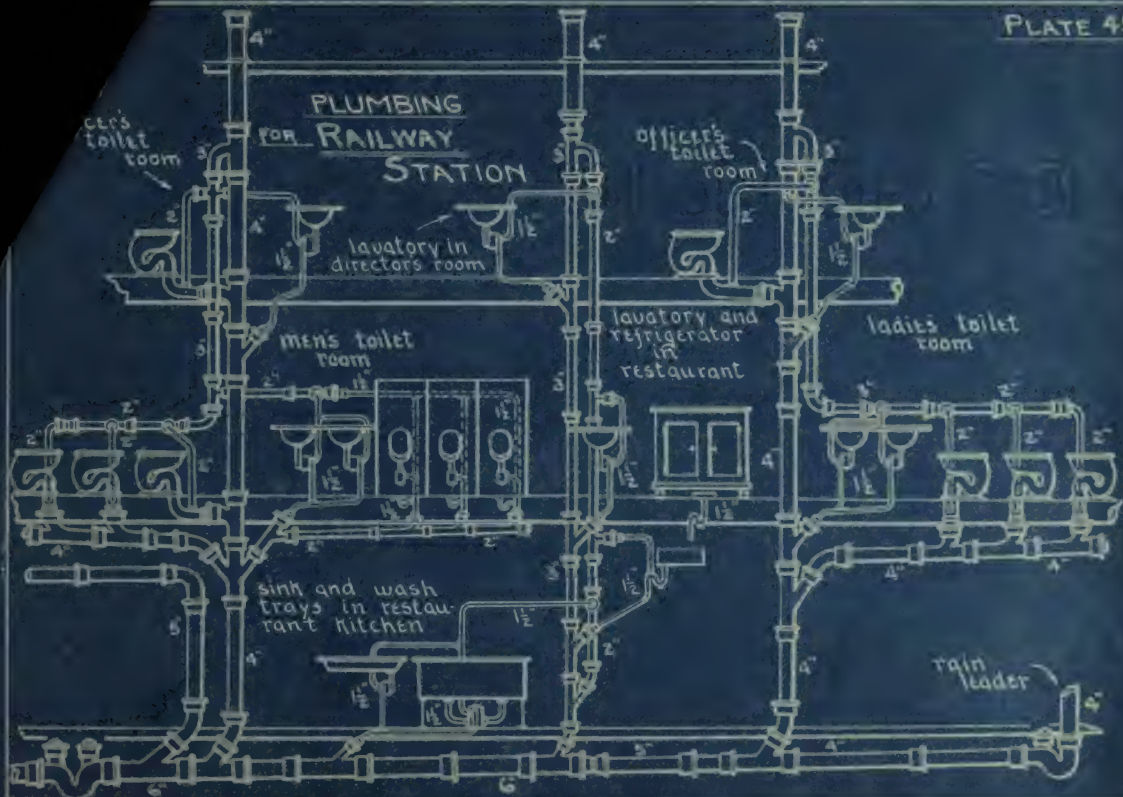
THE
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PLUMBING
ENGINE
HOUSE

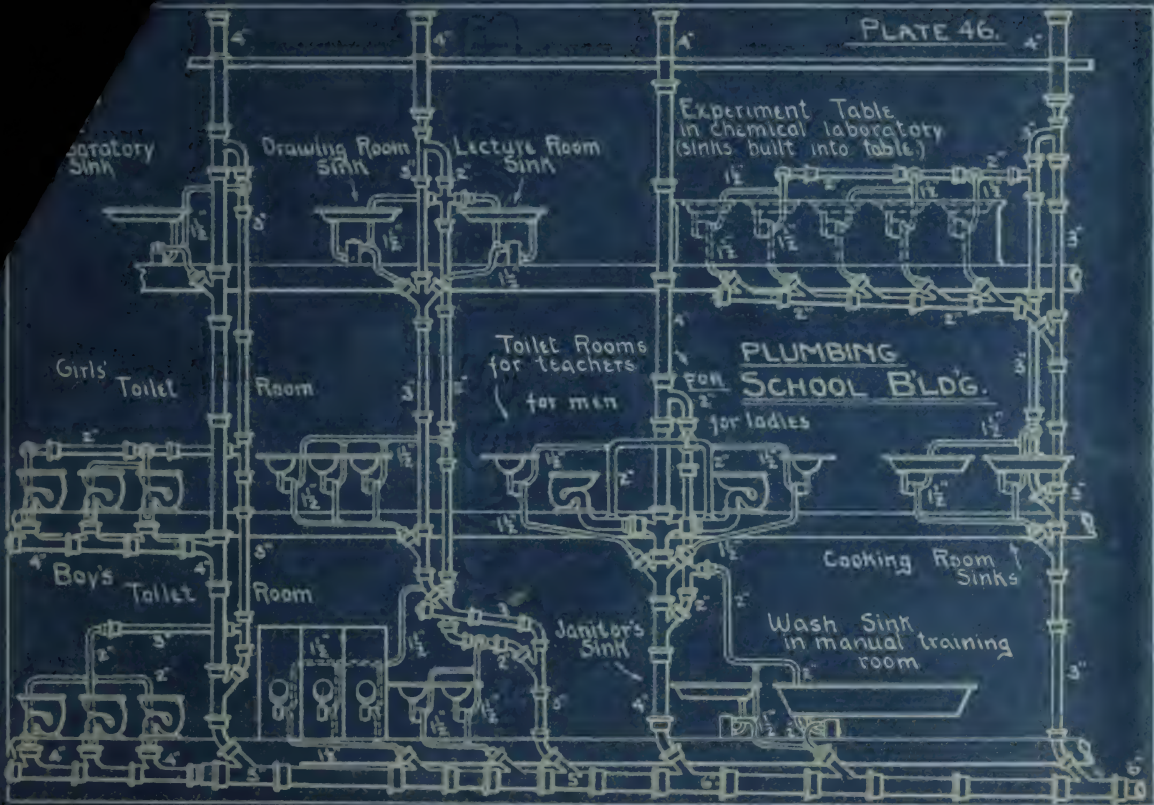
Floor drain
in apparatus
wash room



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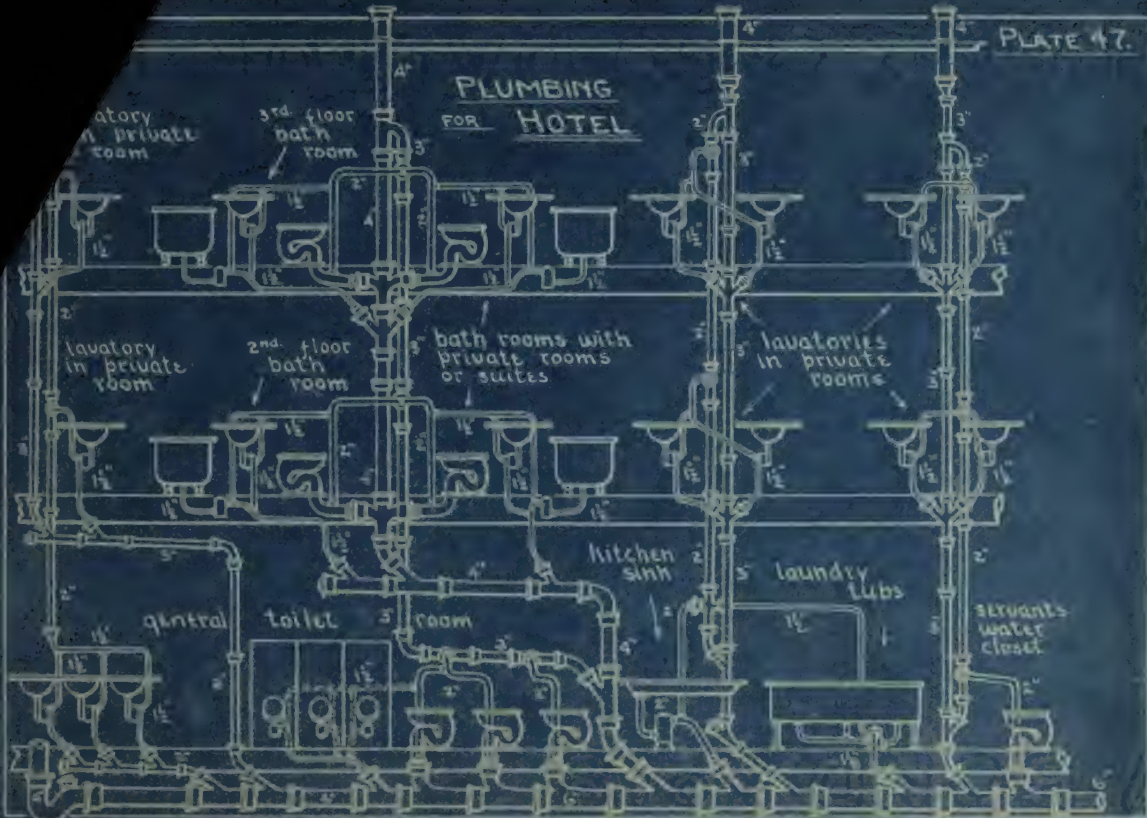


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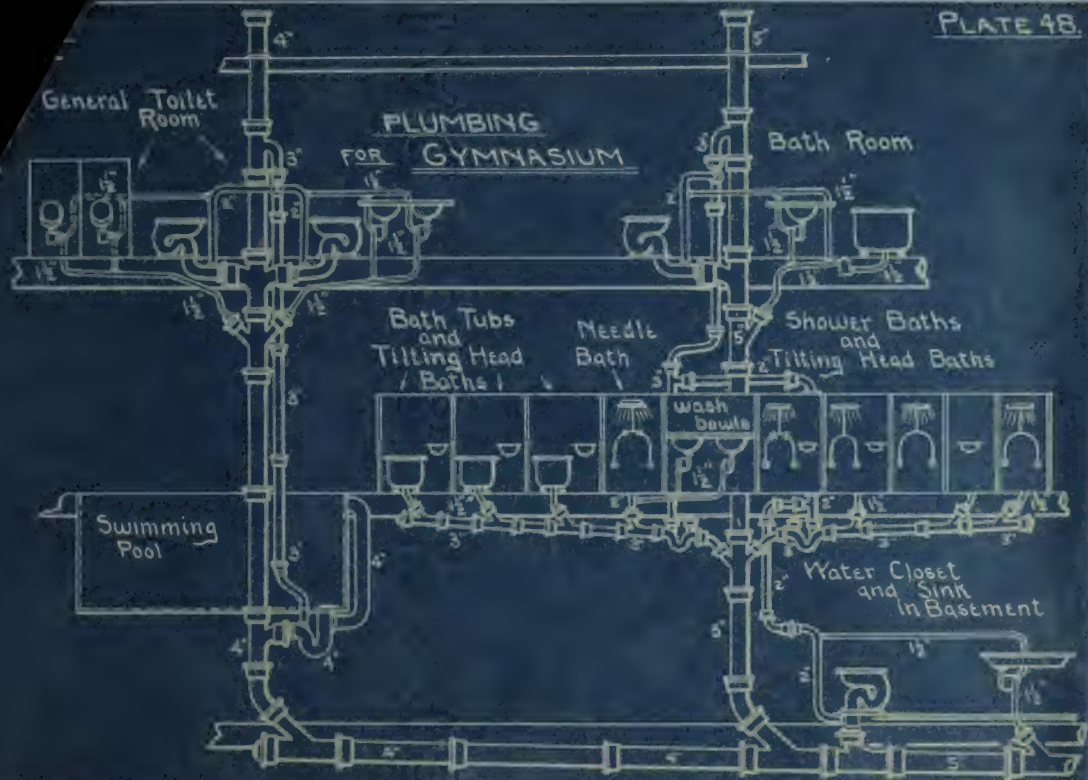


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PLUMBING FOR HOTEL

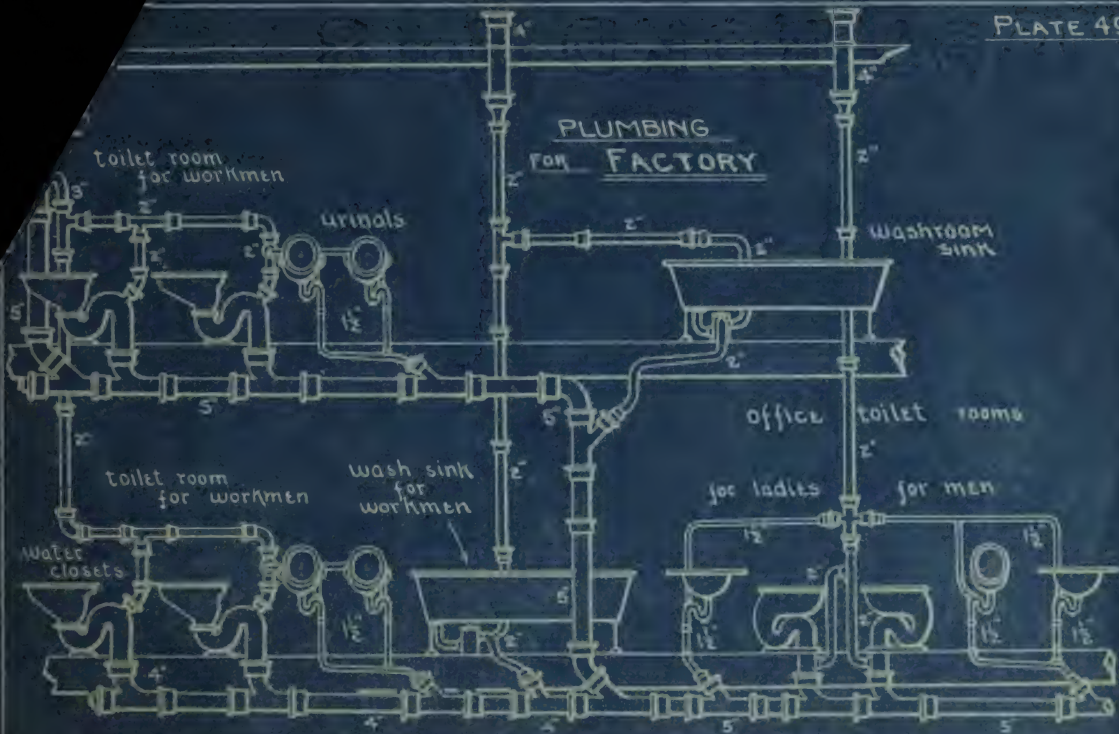


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PLUMBING
FOR FACTORY



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PLUMBING FOR MODERN STABLE

Wash bowl and
water closet in
hostler's room

harness room
sink

horse stalls

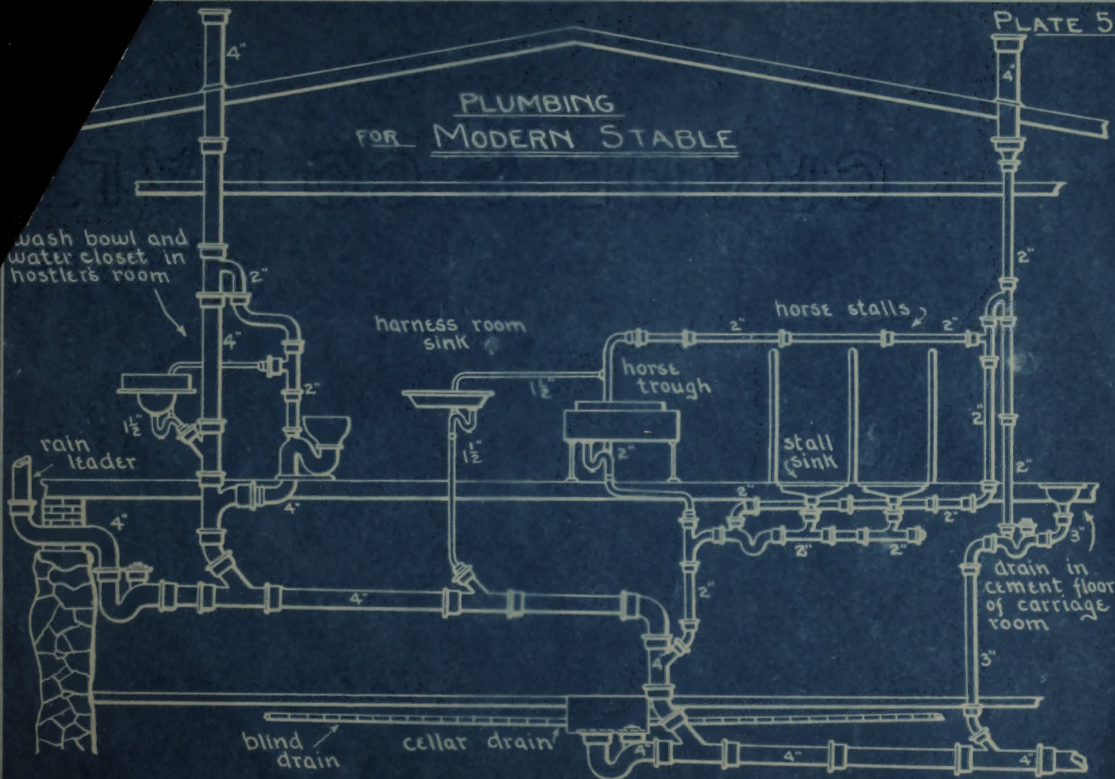
horse
trough

stall
sink

drain in
cement floor of
carriage
room



blind
drain

cellar drain



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AND
"THE STARBUCK
EXAMINATION CHARTS"
FOR BOARDS OF HEALTH
AND BOARDS OF
PLUMBING EXAMINERS